

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: April 14, 2005, 22:58:49 ; Search time 36.5 Seconds
(without alignments)
1411.174 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 639

Sequence: 1 atgagcacacttcttaaac.....aatgaccccgcgagga 345

Scoring table: BLOSUM62

Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 1027090

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters: -DEV=xlp
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-DB=Issued Patents_AA -QFWT=fasten -SUFFIX=ra1 -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=pco -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
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-NO.MMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PTCUS.COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	617	96.6	115	4	US-09-878-281A-148
2	608	95.1	115	3	US-08-836-075A-50
3	588	92.0	191	2	US-08-290-665A-187
4	588	92.0	191	2	US-08-290-665A-188
5	588	92.0	191	2	US-08-290-665A-190
6	588	92.0	191	5	PCT-US95-10398-187
7	588	92.0	191	5	PCT-US95-10398-188
8	588	92.0	191	5	PCT-US95-10398-189
9	587	91.9	191	2	US-08-290-665A-189
10	587	91.9	191	5	PCT-US95-10398-189
11	574	89.8	191	2	US-08-290-665A-192
12	574	89.8	191	2	US-08-290-665A-193

13	574	89.8	191	2	US-08-290-665A-195
14	574	89.8	191	5	PCT-US95-10398-192
15	574	89.8	191	5	PCT-US95-10398-193
16	574	89.8	191	5	PCT-US95-10398-195
17	573	89.7	120	4	US-08-931-855B-14
18	571	89.4	319	3	US-08-836-075A-12
19	571	89.4	319	4	US-08-635-886C-199
20	571	89.4	319	4	US-08-974-690C-199
21	570	89.2	191	2	PCT-US95-10398-196
22	570	89.2	191	5	PCT-US95-10398-196
23	569	89.0	450	4	US-08-635-886C-181
24	569	89.0	450	4	US-08-974-690C-181
25	569	89.0	2894	2	US-08-466-975A-23
26	569	89.0	2894	2	US-08-391-671A-23
27	569	89.0	2894	3	US-08-467-902A-23
28	569	89.0	2894	3	US-09-275-265-23
29	569	89.0	2894	4	US-09-941-611-23
30	568	88.9	120	4	US-08-931-855B-10
31	568	88.9	182	4	US-10-104-966-2
32	568	88.9	191	2	US-08-290-665A-156
33	568	88.9	191	2	US-08-290-665A-157
34	568	88.9	191	2	US-08-290-665A-158
35	568	88.9	191	2	US-08-290-665A-159
36	568	88.9	191	2	US-08-290-665A-160
37	568	88.9	191	2	US-08-290-665A-191
38	568	88.9	191	2	US-08-290-665A-197
39	568	88.9	191	3	US-08-380-160-3
40	568	88.9	191	5	PCT-US95-10398-156
41	568	88.9	191	5	PCT-US95-10398-157
42	568	88.9	191	5	PCT-US95-10398-158
43	568	88.9	191	5	PCT-US95-10398-159
44	568	88.9	191	5	PCT-US95-10398-160
45	568	88.9	191	5	PCT-US95-10398-191

ALIGNMENTS

RESULT 1

US-09-878-281A-148
; Sequence 148, Application US/09878281A
; Patent No. 6762024

; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

; FILE REFERENCE: 35

; CURRENT APPLICATION NUMBER: US/09/878,281A

; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 148

; LENGTH: 115

; TYPE: PRT

; ORGANISM: hepatitis C virus

US-09-878-281A-148

Alignment Scores:
Pred. No.: 6.48e-51 Length: 115
Score: 617.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 96.56% Indels: 0
DB: 4 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281A-148 (1-115)

QY 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAAGAAAAACCAACCCCGGCCACAGG 60

Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsnProGlyHisArg 20

QY 61 ACGTTAAGTTCACGCGCGCGTCAGATCGTTGGTGAGTTTACGTGCTACACACAGG 120

Db 21 ThrLeuSerSerGlnAlaAlaValArgSerLeuValGluPheThrCysTyHisAlaGly 40

QY 121 GCGCCAGTTGGGTGTCAGTGGCAAGACTTCGAGCGGTGCGCAACCTCGCAGTA 180
Db 41 AlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsnLeuAlaVal 60
QY 181 GCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGGTCTCGGCTCAGCCCGGT 240
Db 61 GlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeuSerProGly 80
QY 241 ACCCTTGGCCCTATATGGGAATGAGGCTCGGCTGGGCGAGGTGGCTCTGTCGCCGC 300
Db 81 ThrLeuGlyProTrpMetGlyMetArgAlaAlaGlyGlyGlnGlySerCysProArg 100
QY 301 GCGGCTCTCGCCCGCTGTCGGGCGCCAAATGACCCCGCGCGCAGGA 345
Db 101 AlaAlaLeuAlaArgGlyAlaGlnMetThrProGlyAlaGly 115

RESULT 2
US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-836-075A-50

Alignment Scores:
Pred. No.: 4,67e-50 Length: 115
Score: 608.00 Matches: 114
Percent Similarity: 99.13% Conservative: 0
Best Local Similarity: 99.13% Mismatches: 1
Query Match: 95.15% Indels: 1
DB: 3 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-836-075A-50 (1-115)

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CGSCCAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 60 GAGTTAAGTTCCAGCGCGGTGTCAGATCGTTGGTGGAGTTTACGTGCTACACACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 120 GCGCCCGAGTTGGGTGTCAGTGCAGTCGCGAAGACTTCCGAGCGGTGCGAACCCTCGCAGT 179
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 180 AGCGGCCAACCCATCCCGAGCGCGCGCCGACGAGGCGAGGTCTCGGCTCAGCCCGG 239
Db 61 ArgArgGlnProIleProArgAlaArgArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGGCGAGGTGGCTCTCTGTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGCTGTCGGGCGCCCAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 3
US-08-290-665A-187
; Sequence 187, Application US/08290665A
; Patent No. 582852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R. H. AND
; APPLICANT: PURCELL, R. H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homoeapiens
; INDIVIDUAL ISOLATE: HK10
US-08-290-665A-187


```
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6849
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
; US-08-290-665A-190

Alignment Scores:
Pred. No.: 4,1e-48 Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-190 (1-191)
QY 1 ATGAGCACACTTCCTAAACACACAAAGAAACCAAAAGAAACACCAA-CCCCGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLeuArgProGln 20
QY 60 GACGTTAAAGTTCCAGCGCGGTGCAGATCGTTGGTGGAGTTACGTCTACCAACGCGAG 119
Db 21 AspValLysPheProGlyGlyGlnLeValGlyValTyrValLeuProArgArg 40
QY 120 GCGCCCAACCCATCCCGAGCGCGGTGCAGTCCGAGCGGTCTCGGCTCAGCCCGG 239
Db 61 ArgArgGlnProLeuProLysAlaArgSerGluGlyCysGlyTrpAlaGlyTrpLeuSerPro 299
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTGGCGGTGGCGAGGTGGCTCTCTGCCCCG 344
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuSerPro 100
QY 300 CCGGGCTCTCGCGCTGGCGGCCCAATGACCCCGCGCGAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 6
PCT-US95-10398-187
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESS: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
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; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6849
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
; PCT-US95-10398-187

Alignment Scores:
Pred. No.: 4,1e-48 Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-187 (1-191)
QY 1 ATGAGCACACTTCCTAAACACACAAAGAAACCAAAAGAAACACCAA-CCCCGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLeuArgProGln 20
QY 60 GACGTTAAAGTTCCAGCGCGGTGCAGATCGTTGGTGGAGTTACGTCTACCAACGCGAG 119
Db 21 AspValLysPheProGlyGlyGlnLeValGlyValTyrValLeuProArgArg 40
QY 120 GCGCCCAACCCATCCCGAGCGCGGTGCAGTCCGAGCGGTCTCGGCTCAGCCCGG 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGCCCAACCCATCCCGAGCGCGGTGCAGTCCGAGCGGTCTCGGCTCAGCCCGG 239
Db 61 ArgArgGlnProLeuProLysAlaArgSerGluGlyCysGlyTrpAlaGlyTrpLeuSerPro 299
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTGGCGGTGGCGAGGTGGCTCTCTGCCCCG 344
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuSerPro 100
QY 300 CCGGGCTCTCGCGCTGGCGGCCCAATGACCCCGCGCGAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 7
PCT-US95-10398-188
; Sequence 188, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
```

;; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
;; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
;; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
;; NUMBER OF SEQUENCES: 263
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA
;; ZIP: 10154
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US95/10398
;; FILING DATE: 15-AUG-1995
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/086,428
;; FILING DATE: 29 JUNE 1993
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/290/665
;; FILING DATE: 15 AUGUST 1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 36,459
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792
;; INFORMATION FOR SEQ ID NO: 188:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 191 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: unknown
;; TOPOLOGY: unknown
;; ORIGINAL SOURCE:
;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-188

Alignment Scores:
Pred. No.: Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-188 (1-191)

Qy 1 ATGAGCACATCTCTTAACCAAGAAAAACCAAAAGAACACCAAC-CCCGGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20

Qy 60 GACGTTAAGTCCACAGCGCGGTCAGATCGTTGTGGAGTTTACGTCTACACGACGAG 119
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValLysValLeuProArgArg 40

Qy 120 GGGCCCCAGTTGGGTGTCGTGACGTGCGAGACTTCGAGCGGTCCGACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

Qy 180 AGGCCCAACCCATCCCGCGCGCGCAACCCGAGGCGAGTCTCTGGGCTCAGCCCGG 239
Db 61 ArgArgGlnProIleProLysAlaArgSerGluGlyArgSerThrPalaGlnProGly 80

Qy 240 TACCCTTGGCCCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTCTCTCTGTCCCG 299

Db 81 TyrProThrProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGCTCTCGCCGTCGTGGGGCCCAATGACCCCGGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 8
PCT-US95-10398-190
; Sequence 190, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
PCT-US95-10398-190

Alignment Scores:
Pred. No.: Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-190 (1-191)

Qy 1 ATGAGCACATCTCTTAACCAAGAAAAACCAAAAGAACACCAAC-CCCGGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20

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QY 60 GACGTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGCTACCAAGCAGG 119
Db 21 AspVallyshepProGlyGlyGlnleValGlyVallyrValLeuProArg 40
QY 120 GGCCCCCAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCCAGCGGTCCGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGGGCCCAACCATCCAGCGCGCGCGCAACCGAGCGCAGGTCTCGGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGGGGTGGCGAGGTGGCTCCTCGTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTGTGGGCGCAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 9
US-08-290-665A-189
; Sequence 189, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: Homosapiens
; INDIVIDUAL ISOLATE: S2
US-08-290-665A-189

Alignment Scores:
Pred. No.: 5 11e-48 Length: 191
Score: 587.00 Matches: 107
Percent Similarity: 96.52% Conservative: 4

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Best Local Similarity: 93.04% Mismatches: 4
Query Match: 91.86% Indels: 1
DB: 2 Gaps: 0
US-09-873-224A-147 (1-345) x US-08-290-665A-189 (1-191)
QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAACCAAAAGAAACACCAA-CCCCGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLeuArgA-gProGln 20
QY 60 GAGCTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGTACCAAGCAGG 119
Db 21 AspVallyshepProGlyGlyGlnleValGlyVallyrValLeuProArgArg 40
QY 120 GGCCCCCAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCCAGCGGTTCGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGGGCCCAACCATCCAGCGCGCGCGCAACCGAGCGCAGGTCTCGGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGGGGTGGCGAGGTGGCTCCTCGTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTGTGGGCGCAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 10
PCT-US95-10398-189
; Sequence 189, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:

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TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 195:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z6
US-08-290-665A-195

QY	1	ATGAGCAGAC	TTCTTAACCA	CAAGAAGAAAA	CAACCAACCA	CAACCC	CGGCCACAG	59	
Db	1	MetSerThr	AsnProGly	ProGlnArg	LysThr	LysArg	AsnThrAsn	ArgA-gProMet	20
QY	60	GACGTTAAG	TTCCACAGG	CGGCGT	CAGATCGT	TGGTGGAGT	TTCACGCTAC	CACGCAGG	119
Db	21	AspValLys	PheProGly	GlyGlyGln	IleValGly	GlyValTy	LeuLeuPro	AArgArg	40
QY	120	GGCCCCAGT	TGGGTGCTG	CACTGCGC	AAGACTTCCG	ACGGCTCC	CAACTTCG	CAGT	179
Db	41	GlyProArg	LeuGlyVal	ArgAlaAla	ArgLysThr	SerGluArg	SerGlnPro	ArgGly	60
QY	180	AGGCGCCAC	CCATCCCG	AGGCGCGC	CGACCGAGG	CGCAGGTCTT	GGGTCAGC	CGCGG	239
Db	61	ArgA-gGln	ProIlePro	IleArgArg	SerGluGly	ArgSerTrp	AlaGlnPro	Gly	80
QY	240	TACCTTGGC	CCCTATATG	GGAATGAGG	CTCGGGTGGG	CAGGTGGCT	CTCTGTCCCCG	299	
Db	81	TyrProTrp	ProLeuTy	GlyAsnGlu	GlyCysGly	TrpAlaGly	TrpLeuLeu	SerPro	100
QY	300	CGCGGCTCT	TCGCGCTCT	GTGGGGCCCA	ATAATGAC	CCCCCGGCGCAGG	344		
Db	101	ArgGlySer	ArgProSer	TrpGlyPro	AsnAspPro	ArgArgArg	115		

61 AFGAGGlnProLeuProLeuSalAArgSerGluGlyArgSerIrpAlaGlnProGly 299
 QY 240 TACCTTGGCCCTATATGGAAATAGGGCTGCGGGTGGCGAGGTGCTCTGTCCCCG 299
 Db 81 TyrProTrrProLeuTygIAsnGluGlyCysgIyTrrAlaGlyTrrLeuLeuSerPro 100
 QY 300 CGCGCTCTCGCCCTCTGTGGGGCCAAATGACCCCCGGCGCAGG 344
 Db 101 AFGlySerArgProSerTrrGlyProAsnAspProArgArg 115
 RESULT 14
 PCT-US95-10198-192


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; Sequence 192, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; ATTORNEY/AGENT INFORMATION:
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
PCT-US95-10398-192

Alignment Scores:
Pred. No.: 8,86e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-192 (1-191)

Qy 1 ATGAGCACATTCCTTAAACCAAGAAAAACCAAGAAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

Qy 60 GACGTTAGTTCCTCCAGCGGGCTCAGATCGTTGGTGGAGTTAGTGCTACCGCAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40

Qy 120 GCGCCCAAGTTGGGTGGCTGCGTGCAGACTTCGAGCGGTGCGAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

Qy 180 AGCGCCCAACCCATCCCGAGCGCGCCGGAACCGAGGCGAGGCTCTGGGCTCAGCCGGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80

Qy 240 TACCTTTGGCCCTATATGGGAATGAGGCTGCGGGTGGGAGGCTGCTCTGTCCCGG 299
Db 81 TyrProIleProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

Qy 300 CGCGCTCTCGCCGCTGCTGGGCGCCAAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 15
PCT-US95-10398-193
; Sequence 193, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; ATTORNEY/AGENT INFORMATION:
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-193

Alignment Scores:
Pred. No.: 8,86e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 5 Gaps: 0

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US-09-873-224A-147 (1-345) x PCT-US95-10398-193 (1-191)

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QY 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAGAAACCAACCAACCC-CGGCCACAG 59
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 60 GAGCTTAAGTTCCAGCGCGGTACAGATCGTTGGTGGAGTTTACGTGTACCAACGCAGG 119
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40
QY 120 GGCCCCCAGTTGGTGTGCGTGCAGTGCAGCGCAAGACTTCCAGCGGTGCAACCTCGCAGT 179
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
41 GlyProArgLeuGlyValAlaAlaAlaArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGGCCAACCCATCCCGCGCGCGCGGAAACCGAGGGCAGGTCTCGGCTCAGCCCGG 239
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCCCTGGCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTGGCTCTCTGCCCG 299
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTGGTGGGCCCAAAATGACCCCGGCGCAGG 344
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

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Search completed: April 15, 2005, 00:28:35
Job time : 38.5 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: April 15, 2005, 00:18:39 ; Search time 71 Seconds
(without alignments)
3230.081 Million cell updates/sec

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Perfect score: 639
Sequence: 1 atggagcactctctaaacc.....aatgaccccgccgagga 345

Scoring table: BLOSUM62
Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 1421835 seqs, 332370683 residues

Total number of hits satisfying chosen parameters: 2843670

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=Published Applications AA -QEMT=fastan -SUFFIX=rapb -MINMATCH=0.1
-LOOPEL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blomsum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0
-MAXLEN=200000000 -USER=US09873224 @CGN 1 1 130 @runat 14042005_111944_16205
-NCPU=6 -ICPU=3 -NO MAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100
-LONGLOG -DRV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications AA:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pcp.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pcp.*
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4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pcp.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pcp.*
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7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pcp.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pcp.*
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16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pcp.*
17: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pcp.*
18: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pcp.*
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20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query

No.	Score	Match	Length	DB	ID	Description
1	617	96.6	115	10	US-09-873-224-148	Sequence 148, Appl
2	608	95.1	115	9	US-09-851-138-50	Sequence 50, Appl
3	608	95.1	115	10	US-09-899-046-148	Sequence 148, Appl
4	608	95.1	115	10	US-09-878-281-148	Sequence 148, Appl
5	581	90.9	189	15	US-10-450-649-9	Sequence 9, Appl
6	575	90.0	235	15	US-10-365-620-58	Sequence 58, Appl
7	575	90.0	235	17	US-10-912-969-60	Sequence 60, Appl
8	575	90.0	249	15	US-10-365-620-54	Sequence 54, Appl
9	575	90.0	249	17	US-10-912-969-56	Sequence 56, Appl
10	575	90.0	459	15	US-10-365-620-60	Sequence 60, Appl
11	575	90.0	459	17	US-10-912-969-62	Sequence 62, Appl
12	575	90.0	459	17	US-10-913-171-41	Sequence 41, Appl
13	575	90.0	473	15	US-10-365-620-56	Sequence 56, Appl
14	575	90.0	473	17	US-10-912-969-58	Sequence 58, Appl
15	575	90.0	473	17	US-10-913-171-39	Sequence 39, Appl
16	575	90.0	1892	17	US-10-612-884-6	Sequence 6, Appl
17	571	89.4	130	14	US-10-268-569-19	Sequence 19, Appl
18	571	89.4	319	9	US-09-851-138-12	Sequence 12, Appl
19	571	89.4	319	15	US-10-651-165-199	Sequence 199, Appl
20	569	89.0	450	15	US-10-651-165-181	Sequence 181, Appl
21	569	89.0	2894	9	US-09-941-611-23	Sequence 23, Appl
22	569	89.0	2894	14	US-10-044-995-23	Sequence 23, Appl
23	569	89.0	2894	16	US-10-822-871-23	Sequence 23, Appl
24	568	88.9	151	14	US-10-292-129-14	Sequence 14, Appl
25	568	88.9	182	9	US-09-929-955-2	Sequence 2, Appl
26	568	88.9	182	13	US-10-104-966-2	Sequence 2, Appl
27	568	88.9	182	15	US-10-719-619-2	Sequence 2, Appl
28	568	88.9	319	15	US-10-651-165-217	Sequence 217, Appl
29	568	88.9	450	15	US-10-851-165-179	Sequence 179, Appl
30	568	88.9	450	15	US-10-651-165-180	Sequence 180, Appl
31	568	88.9	3011	9	US-09-742-659-4	Sequence 4, Appl
32	568	88.9	3011	9	US-09-952-572-9	Sequence 9, Appl
33	568	88.9	3011	9	US-09-929-955-1	Sequence 1, Appl
34	568	88.9	3011	9	US-09-747-419-20	Sequence 20, Appl
35	568	88.9	3011	10	US-09-891-894-3	Sequence 3, Appl
36	568	88.9	3011	13	US-10-104-966-1	Sequence 1, Appl
37	568	88.9	3011	14	US-10-259-275-20	Sequence 20, Appl
38	568	88.9	3011	14	US-10-184-150-3	Sequence 3, Appl
39	568	88.9	3011	15	US-10-328-997-3	Sequence 3, Appl
40	568	88.9	3011	15	US-10-189-359-14	Sequence 14, Appl
41	568	88.9	3011	15	US-10-296-734-406	Sequence 406, Appl
42	568	88.9	3011	15	US-10-719-619-1	Sequence 1, Appl
43	568	88.9	3012	9	US-09-238-076-2	Sequence 2, Appl
44	568	88.9	3012	10	US-09-995-937-2	Sequence 2, Appl
45	568	88.9	3012	10	US-09-917-563-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-09-873-224-148
; Sequence 148, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001

```
;
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Immunogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 148:
US-09-873-224-148
Alignment Scores:
Pred. No.: 1.34e-45 Length: 115
Score: 617.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 96.56% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-873-224-148 (1-115)
QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCCCGCCACAGG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsnProGlyHisArg 20
QY 61 ACCTTAAGTTCCAGCGGGGTCAGATCTTGGTGGAGTTAGTGCTACCGACGAGG 120
Db 21 ThrLeuSerSerGlnAlaAlaValArgSerLeuValGluPheThrCysTyrHisAlaGly 40
QY 121 GCCCCAGTTGGGTGTCGTCAGTGCAGAGACTCCGAGCGGTCCGACCTCGCAGTA 180
Db 41 AlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsnLeuAlaVal 60
QY 181 GCGGCCAACCCATCCCGAGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
Db 61 GlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeuSerProGly 80
QY 241 ACCCTTGGCCCTATATGGAATGAGGCTGCGGTCGGGTCGGGTCGGTCTCTCTCCCGC 300
Db 81 ThrLeuGlyProTyrMetGlyMetArgAlaAlaGlyGlnGlyGlySerCysProArg 100
QY 301 GCGGCTCTCCCGCTCGTGGGGCCCAAAATGACCCCGCGCGCAGGA 345
Db 101 AlaAlaLeuAlaArgGlyAlaGlnMetThrProGlyAlaGly 115

RESULT 2
US-09-851-138-50
; Sequence 50, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; COMPUTER: IBM PC compatible
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;
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-09-851-138-50
Alignment Scores:
Pred. No.: 8.23e-45 Length: 115
Score: 608.00 Matches: 114
Percent Similarity: 99.13% Conservative: 0
Best Local Similarity: 99.13% Mismatches: 1
Query Match: 95.15% Indels: 1
DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-851-138-50 (1-115)
QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
QY 60 GAGTTAAGTTCCAGCGCGGTCAGATCTGTTGGTGGAGTTTACGTGTACACGACGAG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 120 GCGCCCGAGTGGGTGTCAGTGCAGTGCAGACATCCGAGCGGTCCGACACCTCCAGT 179
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 180 AGCGCCAAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 239
Db 61 ArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCCTTGGCCCTATATGGAATGAGGCTGCGGTCGGGTCGGGTCGGTCTCTCTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CCGCGCTCTCGCCCGTCGTCGGGCGCGCGCGCGCGCGCGCGCGCGCGCGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 3
US-09-899-046-148
; Sequence 148, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-148

Alignment Scores:
Pred. No.:      8,23e-45      Length:      115
Score:          608.00      Matches:      114
Percent Similarity: 99.13%      Conservative: 0
Best Local Similarity: 99.13%      Mismatches: 1
Query Match:     95.15%      Indels:      1
DB:              10          Gaps:          0

US-09-873-224A-147 (1-345) x US-09-899-046-148 (1-115)

QY 1 ATGACACACTTCCTAAACCAACAAAGAAAAACCAAAAGAAACACCAACCC-CGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 60 GACGTTAAGTTCCACAGCGCGGTGTCAGATCGTTGGTGGAGTTAGTGCTCTACCGCAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValLysValLeuProArg 40
QY 120 GSCCCCCAGTTGGGTGTCAGTGCAGCGCAAGACTTCCGAGCGGTGCAACCTCGCAGT 179
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 180 AGGCCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 239
Db 61 ArgArgGlnProIleProArgAlaArgArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGGAATCAGGCTCGCGGTGGCGAGGTGCTCTGTCTCCCG 299
Db 81 TyrProTrpProLeuTyrglyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGCTCTCGCCCTGTCGTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 4
US-09-878-281-148
; Sequence 148, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; FILE REFERENCE: U 014666-0
; CURRENT APPLICATION NUMBER: US/09/878,281
; CURRENT FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: PCT/AT02/00046
; PRIOR FILING DATE: 2002-02-11
; PRIOR APPLICATION NUMBER: A 272/2001 AT
; PRIOR FILING DATE: 2001-02-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent in version 3.1
; SEQ ID NO: 9
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Hepatitis C Virus 3
US-10-450-649-9

Alignment Scores:
Pred. No.:      1.97e-42      Length:      189
Score:          581.00      Matches:      106
Percent Similarity: 96.49%      Conservative: 4
Best Local Similarity: 92.98%      Mismatches: 4
Query Match:     90.92%      Indels:      1
DB:              15          Gaps:          0

US-09-873-224A-147 (1-345) x US-10-450-649-9 (1-189)

QY 4 AGCACACTTCCTAAACCAACAAAGAAAAACCAAAAGAAACACCAACCC-CGGCCACAGG 62
Db 1 SerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGlnAsp 20
```


; Sequence 54, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrell, Lorne
; APPLICANT: No. US20040001853A1aim, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; PRIOR FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR FILING DATE: 2004/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 54
; LENGTH: 249
; TYPE: PRT
; ORGANISM: ORF of HCV Core Protein
US-10-365-620-54

Alignment Scores:
Pred. No.: 6,73e-42 Length: 249
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 15 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-365-620-54 (1-249)

QY 1 ATGAGCACACCTTCTTAACCAAGAAAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
QY 60 GACGTTAAGTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTACGTCTACACGACGAG 119
Db 51 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArg 70
QY 120 GCGCCCAAGTGGGTGTCGTGCAGTGGCAGACTTCCGAGCGGTCCCAACCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
QY 180 AGGCGCCAAACCCATCCCGAGCGCGCGAACCCGAGGCGAGTCTCGTGGCTCAGCCCGG 239
Db 91 ArgArgGlnProIleProLysAlaArgProGluGlyArgThrTrpAlaGlnProGly 110
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGCGAGGTGCTCTGTCCCG 299
Db 111 TyrProTrpProLeuTyrglyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
QY 300 CGCGGCTCTCGCCCTGTCGTGGGGCCCAATGACCCCGCGGCGAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145

RESULT 9
US-10-912-969-56
; Sequence 56, Application US/10912969
; Publication No. US20050013828A1
; GENERAL INFORMATION:
; APPLICANT: Virex Research, Inc.
; APPLICANT: George, Rajan
; APPLICANT: Tyrell, Lorne
; APPLICANT: Nounjaim, Antoine
; APPLICANT: Wang, Dakun
; APPLICANT: Ma, Allan
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 17506-007001
; CURRENT APPLICATION NUMBER: US/10/912,969
; PRIOR FILING DATE: 2004-08-05
; PRIOR APPLICATION NUMBER: US 60/390,564
; PRIOR FILING DATE: 2002-06-20

; PRIOR APPLICATION NUMBER: US 60/423,578
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 10/365,620
; PRIOR FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: PCT/IB04/00373
; PRIOR FILING DATE: 2004-02-14
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-912-969-56

Alignment Scores:
Pred. No.: 6,73e-42 Length: 249
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 17 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-912-969-56 (1-249)

QY 1 ATGAGCACACCTTCTTAACCAAGAAAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
QY 60 GACGTTAAGTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTACGTCTACACGACGAG 119
Db 51 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArg 70
QY 120 GCGCCCAAGTGGGTGTCGTGCAGTGGCAGACTTCCGAGCGGTCCCAACCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
QY 180 AGGCGCCAAACCCATCCCGAGCGCGCGAACCCGAGGCGAGTCTCGTGGCTCAGCCCGG 239
Db 91 ArgArgGlnProIleProLysAlaArgProGluGlyArgThrTrpAlaGlnProGly 110
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGCGAGGTGCTCTGTCCCG 299
Db 111 TyrProTrpProLeuTyrglyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
QY 300 CGCGGCTCTCGCCCTGTCGTGGGGCCCAATGACCCCGCGGCGAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145

RESULT 10
US-10-365-620-60
; Sequence 60, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrell, Lorne
; APPLICANT: No. US20040001853A1aim, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 60
; LENGTH: 459
; TYPE: PRT
; ORGANISM: HCV Core-TBD protein
US-10-365-620-60

Alignment Scores:

Pred. No.: 7,04e-42 Length: 459
 Score: 575.00 Matches: 105
 Percent Similarity: 94.78% Conservative: 4
 Best Local Similarity: 91.30% Mismatches: 6
 Query Match: 89.98% Indels: 1
 DB: 15 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-365-620-60 (1-459)

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CGGCCACAG 59
 |||||
 Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
 |||||
 QY 60 GAGCTTAAGTTCCAGCGCGGTGCAGATCGTGGTGGAGTTACGTGTACACACGAGG 119
 |||||
 Db 51 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 70
 |||||
 QY 120 GGCCCCCAGTTGGGTGGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCAACTCGCAGT 179
 |||||
 Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
 |||||
 QY 180 AGCGCCCAACCCATCCAGCGCGCGCGCAACCGAGCGAGGTCTGGGCTCAGCCCGGG 239
 |||||
 Db 91 ArgArgGlnProLysProLysAlaArgProGluGlyArgThrTrpAlaGlnProGly 110
 |||||
 QY 240 TACCTTGGCCCTATATGGGAATGAGGCTGCGGGTGGCGAGGTGGTCTCTGTCCTCCCG 299
 |||||
 Db 111 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
 |||||
 QY 300 CGCGGCTCTCGCCCGTCTGGGCGCCCAATGACCCCGCGCAGG 344
 |||||
 Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 145

RESULT 11

US-10-912-969-62
 ; Sequence 62, Application US/10912969
 ; Publication No. US20050013828A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Virex Research, Inc.
 ; APPLICANT: George, Rajan
 ; APPLICANT: Tyrrell, Lorne
 ; APPLICANT: Noujaim, Antoine
 ; APPLICANT: Wang, Dakun
 ; APPLICANT: Ma, Allan
 ; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
 ; FILE REFERENCE: 17506-007001
 ; CURRENT APPLICATION NUMBER: US/10/912,969
 ; PRIOR FILING DATE: 2004-08-05
 ; PRIOR APPLICATION NUMBER: US 60/390,564
 ; PRIOR FILING DATE: 2002-06-20
 ; PRIOR APPLICATION NUMBER: US 60/423,578
 ; PRIOR FILING DATE: 2002-11-05
 ; PRIOR APPLICATION NUMBER: US 10/365,620
 ; PRIOR FILING DATE: 2003-02-13
 ; PRIOR APPLICATION NUMBER: PCT/IB04/00373
 ; PRIOR FILING DATE: 2004-02-14
 ; NUMBER OF SEQ ID NOS: 79
 ; SOFTWARE: Patent in version 3.2
 ; SEQ ID NO 62
 ; LENGTH: 459
 ; TYPE: PRT
 ; ORGANISM: Artificial
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Construct
 US-10-912-969-62

Alignment Scores:
 Pred. No.: 7,04e-42 Length: 459
 Score: 575.00 Matches: 105
 Percent Similarity: 94.78% Conservative: 4
 Best Local Similarity: 91.30% Mismatches: 6
 Query Match: 89.98% Indels: 1
 DB: 17 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-912-969-62 (1-459)

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CGGCCACAG 59
 |||||
 Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
 |||||
 QY 60 GAGCTTAAGTTCCAGCGCGGTGCAGATCGTGGTGGAGTTACGTGTACACACGAGG 119
 |||||
 Db 51 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 70
 |||||
 QY 120 GGCCCCCAGTTGGGTGGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCAACTCGCAGT 179
 |||||
 Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
 |||||
 QY 180 AGCGCCCAACCCATCCAGCGCGCGCGCAACCGAGCGAGGTCTGGGCTCAGCCCGGG 239
 |||||
 Db 91 ArgArgGlnProLysProLysAlaArgProGluGlyArgThrTrpAlaGlnProGly 110
 |||||
 QY 240 TACCTTGGCCCTATATGGGAATGAGGCTGCGGGTGGCGAGGTGGTCTCTGTCCTCCCG 299
 |||||
 Db 111 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
 |||||
 QY 300 CGCGGCTCTCGCCCGTCTGGGCGCCCAATGACCCCGCGCAGG 344
 |||||
 Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 145

RESULT 12

US-10-913-171-41
 ; Sequence 41, Application US/10913171
 ; Publication No. US20050031628A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Virex Research, Inc.
 ; APPLICANT: George, Rajan
 ; APPLICANT: Tyrrell, Lorne
 ; APPLICANT: Noujaim, Antoine
 ; APPLICANT: Wang, Dakun
 ; APPLICANT: Ma, Allan
 ; TITLE OF INVENTION: CHIMERIC ANTIGENS FOR BREAKING HOST TOLERANCE TO FOREIGN ANTIGENS
 ; FILE REFERENCE: 17506-006001
 ; CURRENT APPLICATION NUMBER: US/10/913,171
 ; CURRENT FILING DATE: 2004-08-05
 ; PRIOR APPLICATION NUMBER: US 60/493,449
 ; PRIOR FILING DATE: 2004-08-08
 ; NUMBER OF SEQ ID NOS: 51
 ; SOFTWARE: Patent in version 3.2
 ; SEQ ID NO 41
 ; LENGTH: 459
 ; TYPE: PRT
 ; ORGANISM: Artificial
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Construct
 US-10-913-171-41

Alignment Scores:
 Pred. No.: 7,04e-42 Length: 459
 Score: 575.00 Matches: 105
 Percent Similarity: 94.78% Conservative: 4
 Best Local Similarity: 91.30% Mismatches: 6
 Query Match: 89.98% Indels: 1
 DB: 17 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-913-171-41 (1-459)

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CGGCCACAG 59
 |||||
 Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
 |||||
 QY 60 GAGCTTAAGTTCCAGCGCGGTGCAGATCGTGGTGGAGTTACGTGTACACACGAGG 119
 |||||
 Db 51 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 70
 |||||
 QY 120 GGCCCCCAGTTGGGTGGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179
 |||||


```

RESULT 14
US-10-912-969-58
; Sequence 58, Application US/10912969
; Publication No. US20050013828A1
; GENERAL INFORMATION:
; APPLICANT: Virexx Research, Inc.
; APPLICANT: George, Rajan
; APPLICANT: Tyrrell, Lorne
; APPLICANT: Noujaim, Antoine
; APPLICANT: Wang, Dakun
; APPLICANT: Ma, Allan
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 17506-007001
; CURRENT APPLICATION NUMBER: US/10/912,969

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; CURRENT FILING DATE: 2004-06-07
; PRIOR APPLICATION NUMBER: US 60/390,564
; PRIOR FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 60/423,578
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 10/365,620
; PRIOR FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: PCT/IB04/00373
; PRIOR FILING DATE: 2004-02-14
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 58
; LENGTH: 473
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; US-10-912-969-58

Alignment Scores:
Pred. No.: 7 05e-42 Length: 473
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6

```

DB:	17	Gaps:	0
US-09-873-224A-147 (1-345) x US-10-912-969-58 (1-473)			
Qy	1	ATGACGACACTTCCTAAACACCAAGAAAACCAAAAGAAACACCAACCC-CGGCCACAC	
Db	31	MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgArgProGln	
Qy	60	GACGCTTAAGTTTCCACGCGCGCGTCAGATCGCTTGTTGGTAGTTTACGTCGTACCAACGACGAG	

```

Db      AspValIysPheProGlyGlyGlyGlnIleValGlyGlyValTrpLeuLeuProArgAra
QY      51  GCGCCGCCAGTTGGGTGGCTGCAGTGCACAAAGACTTCGACGGGTGCGCAACCTTCGCAGAG
Db      GlyProArgLeuGlyValAlaThrArgLysThrSerGluArgSerGlnProArgGln
QY      71  AGGCGCCCAACCATTCCCAGGCGCGCCCAAACCGAGGCGAGCTCCTGGGCTCAGCCCCGGG
Db      ArgArgGlnProIleProLysAlaArgAgProGluGlyArgThrTrpAlaGlnProGln
QY      91  TACCTCTTGCCCGCCCTATATGGGAATAGAGGCTCGGGTGGGACAGGCTGCTCTGTCCCC
Db      TyrProTrpProLeuTyArgIAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPr
QY      111 CGCGGCTCTCGCCCGTGGGGGCCCAATGACCCCCCGCGCGCAGG 344
Db      ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145

RESULT 15
US-10-913-171-39
; Sequence 39, Application US/10913171
; Publication No. US20050031628A1
GENERAL INFORMATION:

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Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	345	100.0	345	4	US-09-878-281A-147	Sequence 147, Appl
2	309	89.6	309	3	US-08-836-075A-49	Sequence 49, Appl
3	261.6	75.8	652	3	US-08-836-075A-59	Sequence 59, Appl
4	260.2	75.4	499	4	US-09-878-281A-165	Sequence 165, Appl
5	259.4	75.5	573	2	US-08-290-665A-136	Sequence 136, Appl
6	259.4	75.2	573	4	US-09-194-949A-5	Sequence 5, Appl
7	259.4	75.2	573	5	PCR-US95-10398-136	Sequence 136, Appl
8	257.8	74.7	573	2	US-08-290-665A-141	Sequence 141, Appl
9	257.8	74.7	573	5	PCR-US95-10398-141	Sequence 141, Appl
10	257.8	74.7	803	1	US-08-157-235-4	Sequence 4, Appl
11	257.8	74.7	803	1	US-08-157-235-5	Sequence 5, Appl
12	256.2	74.3	573	2	US-08-290-665A-135	Sequence 135, Appl
13	256.2	74.3	573	2	US-08-290-665A-137	Sequence 137, Appl
14	256.2	74.3	573	2	US-08-290-665A-138	Sequence 138, Appl
15	256.2	74.3	573	5	PCR-US95-10398-135	Sequence 135, Appl
16	256.2	74.3	573	5	PCR-US95-10398-137	Sequence 137, Appl
17	256.2	74.3	573	5	PCR-US95-10398-138	Sequence 138, Appl
18	256.2	74.3	1037	1	US-08-462-195-1	Sequence 1, Appl
19	256.2	74.3	1037	2	US-08-636-883-1	Sequence 1, Appl
20	256.2	74.3	1037	3	US-09-127-829-1	Sequence 1, Appl
21	254.6	73.8	499	4	US-09-878-281A-163	Sequence 163, Appl
22	254.6	73.8	573	2	US-08-290-665A-107	Sequence 107, Appl
23	254.6	73.8	573	2	US-08-290-665A-114	Sequence 114, Appl
24	254.6	73.8	573	2	US-08-290-665A-119	Sequence 119, Appl
25	254.6	73.8	573	5	PCR-US95-10398-107	Sequence 107, Appl
26	254.6	73.8	573	5	PCR-US95-10398-114	Sequence 114, Appl
27	254.6	73.8	573	5	PCR-US95-10398-119	Sequence 119, Appl

QY	240	TACCCCTGGCCCTATATAGGGAATGAGGGCTGCGGGGTGGGAGGGTGGCTCCTGTCCCGG	299
DB	479	TACCCCTGGCCCTCTATGTGTAAAGAGGGCTGCGGGTGGGAGGTGGCTCCTGTCCCGCT	538
QY	300	CGCGGCTCTCGCCCGCTCGTGGGGCCCAAAATGACCCCGGCGCAGG	344
DB	539	CGCGGCTCCCGCTCTAGTTGGGGCTCTACTGACCCCGGCGTAGG	583

RESULT 4

US-09-878-281A-165

; Sequence 165, Application US/09878281A

; Patent No. 6762024

; GENERAL INFORMATION:

; APPLICANT: Innogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy

; TITLE OF INVENTION: and therapy

; FILE REFERENCE: 35

; CURRENT APPLICATION NUMBER: US/09/878,281A

; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 165

; LENGTH: 499

; TYPE: DNA

; ORGANISM: hepatitis C virus

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (306)..(306)

; OTHER INFORMATION: "n" is any nucleotide

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (313)..(313)

; OTHER INFORMATION: "n" is any nucleotide

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (340)..(340)

; OTHER INFORMATION: "n" is any nucleotide

; US-09-878-281A-165

; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE HEPATITIS C VIRUS
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 136:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 573 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; ORIGINAL SOURCE:
 ; ORGANISM: hominapiens
 ; INDIVIDUAL ISOLATE: S52
 ; US-08-290-665A-136

RESULT 5
US-08-290-665A-136
; Sequence 136, Application US/08290665A

RESULT 6
US-09-194-949A-5
; Sequence 5, Application US/091949A
; Patent No. 6653125
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949A
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 08/865,823
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 75.2%; Score 259.4; DB 4; Length 573;
Best Local Similarity 86.4%; Pred. No. 2.2e-64;
Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCAAGAAAGAAACCAAAAGAAAGAAACCAACACC-CCGCGCCACAG 59
DB 1 ATGAGCACGATCTTAACCTCAAGAAAGAAACCAAAAGAAAGAAACCAACACC-CCGCGCCACAG 60

QY 60 GACGTTAAGTTCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 119
DB 61 GACGTTAAGTTCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 120

QY 120 GCGCCCGAGTTCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 179
DB 121 GCGCCCGAGTTCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 180

QY 180 AGCGCCCAACCCATCCCGAGCGCGCGAAACCGAGCGGAGGTCCTGGGCTCAGCCCGGG 239
DB 181 AGCGCCAGCCTATCCCGAGCGCGCGAAACCGAGCGGAGGTCCTGGGCTCAGCCCGGG 240

QY 240 TACCTTGGCCCTATATGGGAATAGGCGTCCGGTGGGCGAGGTCCTGGTCTGCTCCCG 299
DB 241 TACCTTGGCCCTATATGGGAATAGGCGTCCGGTGGGCGAGGTCCTGGTCTGCTCCCG 300

QY 300 CGCGGCTCCCGCTCGTGGGCGCCAAATGACCCCGCGCGAGG 344
DB 301 CGCGGCTCCCGCTAGTTGGGCGCCCAATGACCCCGCGCGAGG 345

RESULT 7
PCT-US95-10398-136
; Sequence 136, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORGANISM: hominapiens
INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match 75.2%; Score 259.4; DB 5; Length 573;
Best Local Similarity 86.4%; Pred. No. 2.2e-64;
Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCAAGAAAGAAACCAAAAGAAAGAAACCAACACC-CCGCGCCACAG 59
DB 1 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAAAAGAAAGAAACCAACACC-CCGCGCCACAG 60

QY 60 GACGTTAAGTTCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 119
DB 61 GACGTTAAGTTCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 120

QY 120 GCGCCCGAGTTCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 179
DB 121 GCGCCCGAGTTCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 180

QY 180 AGCGCCCAACCCATCCCGAGCGCGCGAAACCGAGCGGAGGTCCTGGGCTCAGCCCGGG 239
DB 181 CGACGACAGCCTATCCCGAGCGCGCGTCCGAGCGGAGGTCCTGGGCTCAGCCCGGG 240

QY 240 TACCTTGGCCCTATATGGGAATAGGCGTCCGGTGGGCGAGGTCCTGGTCTGCTCCCG 299
DB 241 TACCTTGGCCCTATATGGGAATAGGCGTCCGGTGGGCGAGGTCCTGGTCTGCTCCCG 300

QY 300 CGCGGCTCCCGCTCGTGGGCGCCAAATGACCCCGCGCGAGG 344
DB 301 CGCGGCTCCCGCTAGTTGGGCGCCCAATGACCCCGCGCGAGG 345

RESULT 8
US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852

Db 478 CGACGACAGCCTATCCCCAGCGCGTGGAGCGAAGCGCGCTCTGGGCTCAGCCCGG 537
Qy 240 TACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGGCAAGGTGGCTCTGTCCCG 299
Db 538 TACCTTGGCCCTCTATGTTAAGAGGCTCGGGTGGGCAAGGTGGCTCTGTCCCG 597
Qy 300 CGCGCTCTCGCCCTCTGTGGGGCCCAATGACCCCGCGCAGG 344
Db 598 CGCGCTCTCGCCCTCTATGTTAAGAGGCTCGGGTGGGCAAGGTGGCTCTGTCCCG 642

RESULT 12
US-08-290-665A-135
; Sequence 135, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 135:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
US-08-290-665A-135

Query Match 74.3%; Score 256.2; DB 2; Length 573;
Best Local Similarity 85.8%; Pred. No. 1.8e-63;
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;
Qy 1 ATGACGACACTTCTTAACCAACCAAGAAAAACCAAAACCAACCAACCCAGCAG 59
Db 1 ATGACGACACTTCTTAACCTCAAGAAAAACCAAAACCAACCAACCCAGCAG 60
Qy 60 GACGTTAAGTTCCCGGCGCGTCTGATGTTGGTGGAGTTTACGTGTACACGCGAG 119
Db 61 GACGTTAAGTTCCCGGTTGGCGGACAGATCGTTGGTGGAGTATAGTTTGGCGCGAG 120
Qy 120 GCGCCCGCAGTTGGGTGTGGTCCAGTGGCGCAAGACTTCGAGCGGTGCGAACCTCGCAGT 179

Db 121 GGCCCAACATTTGGTGTGCGCGCGAGCGGTAAACTTCTGAACGGTGGAGCCTCGCGA 180
Qy 180 AGGCGCCCAACCATCTCCCGAGGCGCGCGAACCAGAGGCGAGTCTTGGGCTCAGCCCGG 239
Db 181 CGACGACAGCCTATATCCCCAAGCGCGTGGAGCGAAGCGCGTCTGGGCTCAGCCCGG 240
Qy 240 TACCTTGGCCCTCTATATGGGAATGAGGCTCGGGTGGGCAAGGTGGCTCTGTCCCG 299
Db 241 TACCTTGGCCCTCTATGTTAAGAGGCTCGGGTGGGCAAGGTGGCTCTGTCCCG 300
Qy 300 CGCGCTCTCGCCCTCTGTGGGGCCCAATGACCCCGCGCAGG 344
Db 301 CGCGCTCTCGCCCTCTATGTTGGGGCCCAACCAACCGCCCGCGCAGG 345

RESULT 13
US-08-290-665A-137
; Sequence 137, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 137:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S2
US-08-290-665A-137

Query Match 74.3%; Score 256.2; DB 2; Length 573;
Best Local Similarity 85.8%; Pred. No. 1.8e-63;
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;
Qy 1 ATGACGACACTTCTTAACCAACCAAGAAAAACCAAAACCAACCAACCCAGCAG 59
Db 1 ATGACGACACTTCTTAACCTCAAGAAAAACCAAAACCAACCAACCCAGCAG 60
Qy 60 GACGTTAAGTTCCCGGCGCGTCTGATGTTGGTGGAGTTTACGTGTACACGCGAG 119

Db 61 GACATCAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTATACGTGTTCGGCGCAGG 120
QY 120 GCGCCCAAGTTGGGTGGCGTGCAGTCCGCAAGACTTCCAGCGGTCCGCAACCTCCAGT 179
Db 121 GCGCCCAAGTTGGGTGGCGTGCAGTCCGCAAGACTTCCGCAAGCTCCGCGGA 180
QY 180 AGCGCCCAAGTTCCCGGTGGCGTGCAGTCCGCAAGCTTCCGCAAGCTCCGCGGA 239
Db 181 CGCGGACAGCTATCCCGAGGCGGTGGCGTGCAGTCCGCAAGCTTCCGCGGA 240
QY 240 TACCTTGGCCCTATATGGAATAGAGGTGGCGTGCAGTCCGCAAGCTTCCGCGG 299
Db 241 TACCTTGGCCCTATATGGAATAGAGGTGGCGTGCAGTCCGCAAGCTTCCGCGG 300
QY 300 CGCGGCTCTCGCGTGGCGTGCAGTCCGCAAGCTTCCGCAAGCTTCCGCGG 344
Db 301 CGCGGCTCTCGCGTGGCGTGCAGTCCGCAAGCTTCCGCAAGCTTCCGCGG 345

RESULT 14

US-08-290-665A-138
; Sequence 138, Application US/08290665A
; Patent No. 582852

GENERAL INFORMATION:

; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792

INFORMATION FOR SEQ ID NO: 138:

SEQUENCE CHARACTERISTICS:

; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: DK12

US-08-290-665A-138

Query Match 74.3%; Score 256.2; DB 2; Length 573;
Best Local Similarity 85.8%; Pred. No. 1.8e-63;
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCTCAAGAAAAACCAAGAAAAACCAACACCTCGTCCGCCACAG 59
|||||

Db 1 ATGAGCACACTTCTTAACACCTCAAGAAAAACCAAGAAAAACCAACACCTCGTCCGCCACAG 60
QY 60 GAGTTTAACTTCCAGCGCGGTGCAGTCCGTTGGTGGAGTTTACGTGCTACCAACGAGG 119
Db 61 GAGTCAAGTTTCCCGGTGGCGACAGATCGTTGGTGGAGTATACGTGTTCCGCCGAGG 120
QY 120 GCGCCCAAGTTGGGTGGCGTGCAGTCCGCAAGACTTCCGAGCGGTTCGCAACCTCGCAGT 179
Db 121 GCGCCCAAGTTGGGTGGCGTGCAGTCCGCAAGACTTTCGAAAGGTTCAGACCTCGCGGA 180
QY 180 AGCGCCCAACCCATCCCGAGGCGGCCGAAACCGAGGCGAGGTCTTGGGTTCAGCCCCGGG 239
Db 181 CGCGGACAGCTATCCCGAGGCGGTGGCGTGCAGTCCGCAAGCTTCCGCGGCTCAGCCTGGG 240
QY 240 TACCTTGGCCCTATATGGAATAGAGGTGGCGTGCAGTCCGCAAGCTTCCGCGG 299
Db 241 TACCTTGGCCCTCTATGTACGAGGCTTGGGTGGCGAGGTGGCTCTCTGTCCCCA 300
QY 300 CGCGGCTCTCGCGTGGCGTGCAGTCCGCAAGCTTCCGCAAGCTTCCGCGGCGCAGG 344
Db 301 CGCGGCTCTCGCGTGGCGTGCAGTCCGCAAGCTTCCGCAAGCTTCCGCGGCGGAGG 345

RESULT 15

PCT-US95-10398-135
; Sequence 135, Application PC/TUS9510398
; GENERAL INFORMATION:

; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792

INFORMATION FOR SEQ ID NO: 135:

SEQUENCE CHARACTERISTICS:

; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

ORGANISM: homosapiens

INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-135

Query Match	74.3%;	Score	256.2;	DB	5;	Length	573;
Best Local Similarity	85.8%;	Pred. No.	1.8e-63;				
Matches	296;	Conservative	0;	Mismatches	48;	Indels	1;
						Gaps	1;

Qy	1	ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACACC-CGGGCCACAG	59
Db	1	ATGAGCACACTTCTTAACCTCAAGAAACCAAAAGAAACCAACCATCGTCGCCACAG	60
Qy	60	GACGTTAAGTTCCAGGCGCGGTGATCGTTGGTGGAGTTTACGTGCTACCAACGAGG	119
Db	61	GACGTTAAGTTCCCGGTGGCGGACAGATCGTTGGTGGAGTATACGTGTCGCCGAGG	120
Qy	120	GGCCCCCAGTTGGGTGTCGTGACGTGCGCAAGACTTCCGACGGTCGCAACTCGCAGT	179
Db	121	GGCCCCACGATTGGGTGTCGCCGCGACGCGTAAACCTTCTGAACGGTCGCAGCCTCGCGGA	180
Qy	180	AGCGGCCAACCCATCCCGAGGCGCGCCGAAACGAGGGGAGGTCTCTGGGCTCAGCCCGGG	239
Db	181	CGACGACAGCCTATCCCCAAGCGCGTCCGAGCGGCGGTCTCTGGGCTCAGCCCGGG	240
Qy	240	TACCCCTTGGCCCCCTATATGGGAATGAGGGCTGGGGTGGGACAGGTGGCTCCTGTCCCCG	299
Db	241	TACCCCTTGGCCCCCTCTATGGTAACGAGGGCTCGGGTGGGACAGGTGGCTCCTGTCCCCA	300
Qy	300	CGCGGCTCTCGCCCCGTCTGTGGGGCCCAATGACCCCCCGGCGCAGG	344
Db	301	CGCGGCTCCCGTCCATCTTGGGGCCCAACGACCCCCCGGCGCAGG	345

Search completed: April 14, 2005, 21:34:10
Job time : 135 secs

This Page Blank (uspto)

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2005, 21:21:18 ; Search time 507 Seconds
(without alignments)
4128.235 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacattcttaaac.....aaatgaccccgccgagga 345

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 5622541 seqs, 303355566 residues

Total number of hits satisfying chosen parameters: 11245082

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

1: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*

2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*

3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*

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7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*

8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*

9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*

10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*

11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*

12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*

13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*

14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*

15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*

16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*

17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*

18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*

19: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*

20: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*

21: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*

22: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	345	100.0	345	10	US-09-873-224-147
2	334	96.8	346	10	US-09-899-046-147
3	334	96.8	346	10	US-09-878-281-147
4	309	89.6	309	9	US-09-851-138-49
5	261.6	75.8	652	9	US-09-851-138-59
6	260.2	75.4	499	10	US-09-899-046-165
7	260.2	75.4	499	10	US-09-878-281-165
8	260.2	75.4	499	10	US-09-873-224-165
9	259.4	75.2	573	10	US-09-194-949-5
10	259.4	75.2	573	19	US-10-664-391-5
11	254.6	73.8	499	10	US-09-899-046-163

12	254.6	73.8	499	10	US-09-878-281-163	Sequence 163, App
13	254.6	73.8	499	10	US-09-873-224-163	Sequence 163, App
14	253.6	73.5	498	10	US-09-899-046-193	Sequence 193, App
15	253.6	73.5	498	10	US-09-878-281-193	Sequence 193, App
16	253.6	73.5	498	10	US-09-873-224-193	Sequence 193, App
17	253	73.3	2433	9	US-09-973-025-49	Sequence 49, Appl
18	253	73.3	2433	10	US-09-899-303-49	Sequence 49, Appl
19	253	73.3	2433	10	US-09-995-808-49	Sequence 49, Appl
20	253	73.3	2433	10	US-09-995-860-49	Sequence 49, Appl
21	253	73.3	2433	10	US-09-995-791-49	Sequence 49, Appl
22	253	73.3	2433	18	US-10-321-798-49	Sequence 1, Appl
23	251.4	72.9	531	18	US-10-484-112-1	Sequence 1, Appl
24	251.4	72.9	1953	18	US-10-484-112-3	Sequence 3, Appl
25	249.8	72.4	360	9	US-09-306-780-3	Sequence 3, Appl
26	249.8	72.4	483	9	US-09-306-780-7	Sequence 7, Appl
27	249.8	72.4	843	9	US-09-306-780-11	Sequence 11, Appl
28	249.8	72.4	9353	18	US-10-475-024-17	Sequence 17, Appl
29	249.8	72.4	9413	10	US-09-827-688-6	Sequence 6, Appl
30	248.8	72.1	957	9	US-09-851-138-11	Sequence 11, Appl
31	248.2	71.9	378	18	US-10-677-956-13	Sequence 13, Appl
32	248.2	71.9	480	16	US-10-071-867-15	Sequence 15, Appl
33	248.2	71.9	9275	15	US-10-259-275-39	Sequence 39, Appl
34	246.6	71.5	378	18	US-10-677-956-9	Sequence 9, Appl
35	246.6	71.5	480	19	US-10-664-038-13	Sequence 13, Appl
36	246.6	71.5	685	10	US-09-853-409-37	Sequence 37, Appl
37	246.6	71.5	685	17	US-10-457-304-37	Sequence 37, Appl
38	246.6	71.5	685	17	US-10-454-293-37	Sequence 37, Appl
39	246.6	71.5	708	17	US-10-365-620-57	Sequence 57, Appl
40	246.6	71.5	708	19	US-10-912-969-59	Sequence 59, Appl
41	246.6	71.5	750	17	US-10-365-620-53	Sequence 53, Appl
42	246.6	71.5	750	19	US-10-312-969-55	Sequence 55, Appl
43	246.6	71.5	1380	17	US-10-365-620-59	Sequence 59, Appl
44	246.6	71.5	1380	19	US-10-912-969-61	Sequence 61, Appl
45	246.6	71.5	1380	19	US-10-913-171-40	Sequence 40, Appl

ALIGNMENTS

RESULT 1

; Sequence 147, Application US/09873224

; Publication No. US20030064360A1

; GENERAL INFORMATION:

; APPLICANT: <Unknown>

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy.

; NUMBER OF SEQUENCES: 270

; CORRESPONDENCE ADDRESS:

; STREET: Industriepark Zwijnaarde 7, box 4

; CITY: Ghent

; COUNTRY: Belgium

; ZIP: B-9052

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/873,224

; FILING DATE: 05-Jun-2001

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/362,455

; FILING DATE: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: Innogenetics sa.

; TELEPHONE: 00 32 9 241 07 11

; TELEFAX: 00 32 9 241 07 99

; INFORMATION FOR SEQ ID NO: 147:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 345 base pairs


```

; MOLECULE TYPE: CDNA
;
; Best Local Similarity 100.0%; Pred. No. 6.2e-85;
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-851-138-49

Query Match      89.6%; Score 309; DB 9; Length 309;
Best Local Similarity 100.0%; Pred. No. 6.2e-85;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY      1  ATGAGCACACTTCTCTAAACACACAGAGAAACCAAAAGAAACACCAACCCCGGCCACAGG 60
DB      1  ATGAGCACACTTCTCTAAACACAGAGAAACCAAAAGAAACACCAACCCCGGCCACAGG 60

QY      61  ACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGAGTTTACGTGCTACCAACGAGG 120
DB      61  ACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGAGTTTACGTGCTACCAACGAGG 120

QY      121  GCCCCAGTTGGGTGTCGTGAGTGGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGTA 180
DB      121  GCCCCAGTTGGGTGTCGTGAGTGGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGTA 180

QY      181  GCGGCCAACCCATCCCCAGGCGCGCCGACCCAGGCGAGTCTCTGGGCTCAGCCCGGGT 240
DB      181  GCGGCCAACCCATCCCCAGGCGCGCCGACCCAGGCGAGTCTCTGGGCTCAGCCCGGGT 240

QY      241  ACCTTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGGAGGGTGCTCTCTGTCCCCG 300
DB      241  ACCTTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGGAGGGTGCTCTCTGTCCCCG 300

QY      301  GCGGCTCTC 309
DB      301  GCGGCTCTC 309

RESULT 5
US-09-851-138-59
; Sequence 59, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DRUG
; AGENTS
;
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 59:

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;
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 652 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: cdna
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 59:
US-09-851-138-59

Query Match          75.4%; Score 261.6; DB 9; Length 652;
Best Local Similarity 86.7%; Pred. No. 2.5e-70;
Matches 299; Conservative 0; Mismatches 45; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGCCACAG 59
Db 1 ATGAGCACGAATCTTAACCTCAAGAAACCAAAAGAAACCAACCAACCCCGCCACAG 298
QY 60 GACGTTAAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGAGG 119
Db 299 GAGTCAAGTTCCGGCGGTGGCCAGATCGTTGGTGGAGTCTACGTGCTACCGCGAGG 358
QY 120 GGGCCCCAGTTGGGTGTCAGTGCGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGT 179
Db 359 GGCCTTAGATTGGGTGTGCGCGCAGCGCGGAAGACTTCGGAGCGGTTCGCAACCTCGTGG 418
QY 180 AGCGGCCAACCAATCCCGAGCGCGCGCGCGCAACCGAGCGGAGTCTGGGTCTAGCCCGGG 239
Db 419 AGCGGCCAACCTATTCCCAAGAGCGCGCGCGCGCAACCGAGCGGAGTCTGGGTCTAGCCCGGG 478
QY 240 TACCTTGGCCCTCTATATGGAATGAGGCTGCGGCTGGGTCGCGAGGTGGTCTCTGTCCTCC 299
Db 479 TACCTTGGCCCTCTATGTAAGAGGCTGCGGTCGGGTGGGTCGCGAGGTGGTCTCTGTCCTCC 538
QY 300 CGCGGCTCTCGCCCGTCTAGTGGGCGCCCAATGACCCCGCGCAGG 344
Db 539 CGCGGCTCTCGCTAGTGGGCTCTACTGACCCCGCGGTAGG 583

RESULT 6
US-09-899-046-165
; Sequence 165, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 165:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-899-046-165

Query Match          75.4%; Score 260.2; DB 10; Length 499;
Best Local Similarity 86.3%; Pred. No. 6.5e-70;
Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGCCACAG 59
Db 1 ATGAGCACGAATCTTAACCTCAAGAAACCAAAAGAAACCAACCAACCCCGCCCTATG 60
QY 60 GACGTTAAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGAGG 119
Db 61 GACGTTAAAGTTCCAGCGCGGTTCAGATCGTTGGGCGAGTTTACTTGTTCGCGCAGG 120
QY 120 GGGCCCCAGTTGGGTGTCAGTGCGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGT 179
Db 121 GGGCCCCAGTTGGGTGTCGCGCGACTCGGAAGACTTCGAGCGGTTCGCAACCTCGTGG 180
QY 180 AGCGGCCAACCAATCCCGAGCGCGCGCGCAACCGAGCGGAGTCTTGGGTCTAGCCCGGG 239
Db 181 AGCGGCCAACCTATATCCCAAGCGCGCGCGCAACCGAGCGGAGATCTTGGGCGCAGCGGG 240
QY 240 TACCTTGGCCCTCTATATGGAATGAGGCTGCGGCTGGGTCGCGAGGTGGTCTCTGTCCTCC 299
Db 241 TATCTTGGCCCTTTACGCAATGAGGCTGTGGTGGGCGAGGTGGTCTCTGTCCTCCCT 300
QY 300 CGCGGCTCTCGCCCGTCTAGTGGGCGCCCAATGACCCCGCGCAG 343
Db 301 CGCGGCTCTCGGCGTCTTGGGCGCCCAATGATCCCGGNGGAG 344

RESULT 7
US-09-878-281-165
; Sequence 165, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 165:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-878-281-165

Query Match          75.4%; Score 260.2; DB 10; Length 499;
Best Local Similarity 86.3%; Pred. No. 6.5e-70;
Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGCCACAG 59
Db 1 ATGAGCACGAATCTTAACCTCAAGAAACCAAAAGAAACCAACCAACCCCGCCCTATG 60
QY 60 GACGTTAAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGAGG 119
Db 61 GACGTTAAAGTTCCAGCGCGGTTCAGATCGTTGGGCGAGTTTACTTGTTCGCGCAGG 120
QY 120 GGGCCCCAGTTGGGTGTCAGTGCGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGT 179
Db 121 GGGCCCCAGTTGGGTGTCGCGCGACTCGGAAGACTTCGAGCGGTTCGCAACCTCGTGG 180
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QY 180 AGGCGCCAAACCCATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 239
 Db 181 AGGCGCCAAACCTATCCCAAGCGCGCCGAAACCGAGGCGAGTCTCTGGGCGAGCCCGG 240
 QY 240 TACCCTTGGCCCTATATCGGAATGAGGCTCGGCGTGGCGAGGCTCTCTGTCCTCCG 299
 Db 241 TATCTTGGCCCTTATCGGAATGAGGCTCTGGCGTGGCGAGGCTCTCTGTCCTCCCT 300
 QY 300 CGCGGCTCTCGCCGCTGTCGGGCGCCCAAAATGACCCCGCGCGAG 343
 Db 301 CGCGGNTCTCGGCGCTCTTGGGCGCCCAATGATCCCGGCGAG 344

RESULT 8
 US-09-873-224-165
 ; Sequence 165, Application US/09873224
 ; Publication No. US20030064360A1
 ; GENERAL INFORMATION:
 ; APPLICANT: <Unknown>
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; CORRESPONDENCE ADDRESS:
 ; STREET: Industriepark Zwijnaarde 7, box 4
 ; CITY: Ghent
 ; COUNTRY: Belgium
 ; ZIP: B-9052
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25 (BPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/873,224
 ; FILING DATE: 05-Jun-2001
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362,455
 ; FILING DATE: <Unknown>
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Innogenetics sa.
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 00 32 9 241 07 11
 ; TELEFAX: 00 32 9 241 07 99
 ; INFORMATION FOR SEQ ID NO: 165:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 499 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; HYPOTHETICAL: NO
 ; ANTI-SENSE: NO
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 165:
 US-09-873-224-165

Query Match 75.4%; Score 260.2; DB 10; Length 499;
 Best Local Similarity 86.3%; Pred. No. 6.5e-70;
 Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;
 QY 1 ATGAGCACATCTCTAAACCAACCAAGAAACCAAAAGAAACCAACACCCCGCCACA-G 59
 Db 1 ATGAGCACGAATCTTAACCTCAAGAAAAACCAACGTAACCAACCGCCGCTATG 60
 QY 60 GACGTTAAGTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 119
 Db 61 GACGTTAAGTCCAGGCGGTGAGATCGTTGGCGAGTTTACTTTGTCGCGCAGG 120
 QY 120 GCGCCCCAGTTGGGTGCGTGCAGTCCGAGACTTCCGAGCGGTCCGAACTCGCAGT 179
 Db 121 GCGCCCCAGTTGGGTGCGTGCAGTCCGAAAGACTTCGAGCGGTTCGACCTCGTGG 180

QY 180 AGGCGCCAAACCCATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 239
 Db 181 AGGCGCCAAACCTATCCCAAGCGCGCCGAAACCGAGGCGAGTCTCTGGGCGAGCCCGG 240
 QY 240 TACCCTTGGCCCTATATCGGAATGAGGCTCGGCGTGGCGAGGCTCTCTGTCCTCCG 299
 Db 241 TATCTTGGCCCTTATCGGAATGAGGCTCTGGCGTGGCGAGGCTCTCTGTCCTCCCT 300
 QY 300 CGCGGCTCTCGCCGCTGTCGGGCGCCCAAAATGACCCCGCGCGAG 343
 Db 301 CGCGGNTCTCGGCGCTCTTGGGCGCCCAATGATCCCGGCGAG 344

RESULT 9
 US-09-194-949-5
 ; Sequence 5, Application US/09194949
 ; Publication No. US20030053987A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Merck & Co., Inc.
 ; APPLICANT: Donnelly, John J.
 ; APPLICANT: Fu, Tong-Ming
 ; APPLICANT: Liu, Margaret A.
 ; APPLICANT: Shiver, John W.
 ; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
 ; FILE REFERENCE: 19732YP
 ; CURRENT APPLICATION NUMBER: US/09/194,949
 ; CURRENT FILING DATE: 2000-02-17
 ; PRIOR APPLICATION NUMBER: PCT/US97/09884
 ; PRIOR FILING DATE: 1997-06-06
 ; PRIOR APPLICATION NUMBER: 60/020,494
 ; PRIOR FILING DATE: 1996-06-11
 ; PRIOR APPLICATION NUMBER: 60/033,534
 ; PRIOR FILING DATE: 1996-12-20
 ; NUMBER OF SEQ ID NOS: 25
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 573
 ; TYPE: DNA
 ; ORGANISM: Hepatitis C Virus
 US-09-194-949-5

Query Match 75.2%; Score 259.4; DB 10; Length 573;
 Best Local Similarity 86.4%; Pred. No. 1.2e-69;
 Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;
 QY 1 ATGAGCACATCTCTAAACCAACCAAGAAACCAAAAGAAACCAACACCCCGCCACA 59
 Db 1 ATGAGCACGAATCTTAACCTCAAGAAAAACCAACGTAACCAACCGCCGCGCAG 60
 QY 60 GACGTTAAGTCCCGAGGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 119
 Db 61 GACGTTAAGTCCCGAGGCGGTGAGATCGTTGGTGGAGTTTACTTTGTCGCGCAG 120
 QY 120 GCGCCCCAGTTGGGTGCGTGCAGTCCGAGACTTCCGAGCGGTCCGAACTCGCAGT 179
 Db 121 GCGCCCCAGTTGGGTGCGTGCAGTCCGAGACTTCCGAGCGGTTCGCACTCGTGA 180
 QY 180 AGGCGCCAAACCCATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 239
 Db 181 AGGCGACAGCCTATCCCAAGGCTCGCGCGCCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
 QY 240 TACCCTTGGCCCTTATATGGAATGAGGCTCGCGGTGGCGAGGCTCTCTGTCCTCCG 299
 Db 241 TACCCTTGGCCCTTATGGAATGAGGCTTCGGGTGGCGAGGATGCTCTGTCCTCCG 300
 QY 300 CGCGGCTCTCGCCGCTGTCGGGCGCCAAATGACCCCGCGCGAG 344
 Db 301 CGCGGCTCTCGGCTTAGTTGGGCGCCCACTGACCCCGCGGTAGG 345

RESULT 10
 US-10-664-391-5
 ; Sequence 5, Application US/10664391


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; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..499
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..496
;
US-09-878-281-163

Query Match 73.8%; Score 254.6; DB 10; Length 499;
Best Local Similarity 85.5%; Pred. No. 3.4e-68;
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTCTAAACCAACAAAGAAAAACCAAAAGAAAAACCAACCAACCCCGGCCACA-G 59
Db 1 ATGAGCACGAATCTCTAAACTTCAAGAAAAACCAACGTAACACCAACCGCGCCCATG 60
QY 60 GACGTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAGG 119
Db 61 GACGTTAAGTTCCGCGGTGGTGGCAGATCGTTGGCGGAGTTTACTTTGTCGCGCAGG 120
QY 120 GSCCGCCAGTTGGGTGCGTGCAGTGCAGACTTCCGAGCGGTTCGCAACTCGCACT 179
Db 121 GSCCTTAGTGTGGTGTGCGCGACTCGGAAGACTTCGAGAGCGGTTCGCAACTCGTGGG 180
QY 180 AGCGCGCAACCCATCCCGAGGCGCGCGAACCAGGCGAGGTCTCTGGGCTCAGCGCGGG 239
Db 181 AGCGCGCAACCTATCCCAAGCGCGCGATCCGAGGCGAGATCTCTGGGCGAGCGCGG 240
QY 240 TACCTTGGCGCCCTATATGGGAATAGGCGTGGGTGGCGAGGTGGTCTCTGTCCCG 299
Db 241 TATCTTGGCGCCCTTATACGCAATAGGCGTGGGTGGCGAGGTGGTCTCTGTCCCT 300
QY 300 CGCGGCTCTCGCGCGTCTGGGCGCAATGACCCCGCGCGAGG 344
Db 301 CGCGGCTCTCGCGCGTCTGGGCGCAATGATATCCCGCGGAGG 345

RESULT 13
US-09-873-224-163
; Sequence 163, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
```

```
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..499
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..496
;
US-09-873-224-163

Query Match 73.8%; Score 254.6; DB 10; Length 499;
Best Local Similarity 85.5%; Pred. No. 3.4e-68;
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTCTAAACCAACAAAGAAAAACCAAAAGAAAAACCAACCAACCCCGGCCACA-G 59
Db 1 ATGAGCACGAATCTCTAAACTTCAAGAAAAACCAACGTAACACCAACCGCGCCCATG 60
QY 60 GACGTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAGG 119
Db 61 GACGTTAAGTTCCGCGGTGGTGGCAGATCGTTGGCGGAGTTTACTTTGTCGCGCAGG 120
QY 120 GSCCGCCAGTTGGGTGCGTGCAGTGCAGACTTCCGAGCGGTTCGCAACTCGCACT 179
Db 121 GSCCTTAGTGTGGTGTGCGCGACTCGGAAGACTTCGAGAGCGGTTCGCAACTCGTGGG 180
QY 180 AGCGCGCAACCCATCCCGAGGCGCGCGAACCAGGCGAGGTCTCTGGGCTCAGCGCGGG 239
Db 181 AGCGCGCAACCTATCCCAAGCGCGCGATCCGAGGCGAGATCTCTGGGCGAGCGCGG 240
QY 240 TACCTTGGCGCCCTATATGGGAATAGGCGTGGGTGGCGAGGTGGTCTCTGTCCCG 299
Db 241 TATCTTGGCGCCCTTATACGCAATAGGCGTGGGTGGCGAGGTGGTCTCTGTCCCT 300
QY 300 CGCGGCTCTCGCGCGTCTGGGCGCAATGACCCCGCGCGAGG 344
Db 301 CGCGGCTCTCGCGCGTCTGGGCGCAATGATATCCCGCGGAGG 345

RESULT 14
US-09-899-046-193
; Sequence 193, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
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GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: April 15, 2005, 00:27:15 ; Search time 19.5 Seconds
(without alignments)
2641.428 Million cell updates/sec

Title: US-09-873-224A-147
Perfect score: 115
Sequence: 1 atgagcacacttcctaacc.....aaatgaccccgcgaggga 345

Scoring table: OLIGO 60.0 , Xgapext 60.0
Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 513545 seqs, 74649064 residues

Word size: 1

Total number of hits satisfying chosen parameters: 903960

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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-DB=Issued_Patents_AA -QMT=fastan -SUFFIX=olig.ra1 -MINMATCH=0.1 -LOOPEXT=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR SCORE=quality -THR_MIN=1 -ALIGN=15 -MODE=LOCAL
-OUTPWT=pto -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09873224 @CGN 1 1 33 @runat_14042005_112005_16541 -NCPU=6 -ICPU=3
-NO MMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/iaa/5A.COMB.pap:*
- 2: /cgn2_6/ptodata/1/iaa/5B.COMB.pap:*
- 3: /cgn2_6/ptodata/1/iaa/6A.COMB.pap:*
- 4: /cgn2_6/ptodata/1/iaa/6B.COMB.pap:*
- 5: /cgn2_6/ptodata/1/iaa/PTCUS.COMB.pap:*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	115	100.0	115	4	US-09-878-281A-148
2	98	85.2	115	3	US-08-836-075A-50
3	83	72.2	100	4	US-08-635-886C-233
4	83	72.2	100	4	US-08-974-690C-233
5	44	38.3	124	1	US-08-244-116B-15
6	44	38.3	166	4	US-09-878-281A-164
7	44	38.3	191	2	US-08-290-665A-187
8	44	38.3	191	2	US-08-290-665A-188
9	44	38.3	191	2	US-08-290-665A-189
10	44	38.3	191	2	US-08-290-665A-190
11	44	38.3	191	2	US-08-290-665A-191
12	44	38.3	191	2	US-08-290-665A-192

13	44	38.3	191	2	US-08-290-665A-193
14	44	38.3	191	2	US-08-290-665A-195
15	44	38.3	191	2	US-08-290-665A-196
16	44	38.3	191	2	US-08-290-665A-197
17	44	38.3	191	5	PCT-US95-10398-187
18	44	38.3	191	5	PCT-US95-10398-188
19	44	38.3	191	5	PCT-US95-10398-189
20	44	38.3	191	5	PCT-US95-10398-190
21	44	38.3	191	5	PCT-US95-10398-191
22	44	38.3	191	5	PCT-US95-10398-192
23	44	38.3	191	5	PCT-US95-10398-193
24	44	38.3	191	5	PCT-US95-10398-195
25	44	38.3	191	5	PCT-US95-10398-196
26	44	38.3	191	5	PCT-US95-10398-197
27	44	38.3	319	4	US-08-635-886C-217
28	44	38.3	319	4	US-08-635-886C-219
29	44	38.3	319	4	US-08-974-690C-217
30	44	38.3	319	4	US-08-974-690C-219
31	38	33.0	120	4	US-08-931-855B-14
32	37	32.2	191	2	US-08-290-665A-194
33	37	32.2	191	5	PCT-US95-10398-194
34	36	31.3	166	4	US-09-878-281A-194
35	34	29.6	42	3	US-08-380-160-10
36	34	29.6	45	1	US-08-262-037-27
37	34	29.6	56	1	US-08-262-037-28
38	34	29.6	61	1	US-08-262-037-29
39	34	29.6	89	1	US-07-681-703B-24
40	34	29.6	89	2	US-08-407-410B-24
41	34	29.6	89	2	US-08-485-500-24
42	34	29.6	89	5	PCT-US91-02370-24
43	34	29.6	119	1	US-07-681-703B-18
44	34	29.6	119	2	US-08-407-410B-18
45	34	29.6	119	2	US-08-485-500-18

ALIGNMENTS

RESULT 1

US-09-878-281A-148
; Sequence 148, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 148
; LENGTH: 115
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-09-878-281A-148

Alignment Scores:
Pred. No.: 1.27e-98
Score: 115.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 100.00%
DB: 4
Length: 115
Matches: 115
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281A-148 (1-115)

Qy	1	ATGAGCACACTTCCTAAACCAAGAAAAACCAAAAGAAACACCAACCCCGCCACAGG 60
Db	1	MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsnProGlyHisArg 20
Qy	61	ACGTTAAGTCCACAGCGCGGTCAGATCGTTGGTGAGTTAGTGCTACACGACAGG 120
Db	21	ThrLeuSerSerGlnAlaAlaValArgSerLeuValGluPheThrCysTyHisAlaGly 40

QY 121 GCGCCAGTTGGTGTGCGTGCAGTGCAGACTTCCGAGCGGTGCGCAACCTCGCAGTA 180
Db 41 AlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsnLeuAlaVal 60
QY 181 GCGCCCAACCATCCCGAGCGCGCGCGCAACCGAGGCGCAGTCTCGGGTTCAGCCCGGT 240
Db 61 GlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeuSerProGly 80
QY 241 ACCTTGGCCCTATATGGAATGAGGCTGCGGGTGGGAGGCTGCTTCTGTCCTCCCGC 300
Db 81 ThrLeuGlyProTyrMetGlyMetAlaAlaGlyGlnGlySerCysProArg 100
QY 301 CGCGCTCGCCCGTGTGGGCGCCCAATGACCCCGCGCGCAGGA 345
Db 101 AlaAlaLeuAlaArgGlyAlaGlnMetThrProGlyAlaGly 115
RESULT 2
US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA: PCT/EP95/04155
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-836-075A-50
Alignment Scores:
Pred. No.: 7,87e-83 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: -100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 3 Gaps: 0
US-09-873-224A-147 (1-345) x US-08-836-075A-50 (1-115)

QY 51 CGGCCACAGGAGCTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTA 110
Db 18 ArgProGlnAspValIysPheProGlyGlyGlnIleValGlyValTyrValLeu 37
QY 111 CCACGACAGGGCCCCCAGTTGGTGTGCGTGCAGTGCAGACTTCCGAGCGGTGCGCA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CTTCGAGTAGCGCCCAACCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTCTGGGCT 230
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGGTACCTTGGCCCTATATGGAATGAGGCTGCGGGTGGGACAGGTGGCTC 290
Db 78 GlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGGTCTCGCCCGTGTGGGCGCCCAATGACCCCGCGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
RESULT 3
US-08-635-886C-233
; Sequence 233, Application US/08635886C
; Patent No. 6555114
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2752-18
; CURRENT APPLICATION NUMBER: US/08/635, 886C
; CURRENT FILING DATE: 1996-04-25
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (17)..(17)
; OTHER INFORMATION: Xaa is any amino acid
US-08-635-886C-233
Alignment Scores:
Pred. No.: 6,9e-69 Length: 100
Score: 83.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 72.17% Indels: 0
DB: 4 Gaps: 0
US-09-873-224A-147 (1-345) x US-08-635-886C-233 (1-100)
QY 51 CGGCCACAGGAGCTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTA 110
Db 18 ArgProGlnAspValIysPheProGlyGlyGlnIleValGlyValTyrValLeu 37
QY 111 CCACGACAGGGCCCCCAGTTGGTGTGCGTGCAGTGCAGACTTCCGAGCGGTGCGCA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CTTCGAGTAGCGCCCAACCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTCTGGGCT 230
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGGTACCTTGGCCCTATATGGAATGAGGCTGCGGGTGGGACAGGTGGCTC 290

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Db      78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
Qy      291 CTGTCCCG 299
Db      98 LeuSerPro 100

RESULT 4
US-08-974-690C-233
; Sequence 233, Application US/08974690C
; Patent No. 6613333
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)..(17)
; OTHER INFORMATION: Xaa is any amino acid
US-08-974-690C-233

Alignment Scores:
Pred. No.:      6.9e-69      Length:      100
Score:          83.00      Matches:      83
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:    72.17%      Indels:      0
DB:              4      Gaps:      0

US-09-873-224A-147 (1-345) x US-08-974-690C-233 (1-100)
Qy      51 CGGCCACAGGACGTTAAGTCCAGGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTA 110
Db      18 ArgProGlnAspValLysPheProGlyGlyGlnIleValGlyValTyrValLeu 37

Qy      111 CCAGCGAGGGCCCCCAGTTCGGTGTGCGTGCAGTGCAGACACTTCCGAGCGGTGCGCAA 170
Db      38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57

Qy      171 CTCTGCAGTAGGCGCCAAACCATCCCGAGGCGCGCGCAACCGAGGGCAGGTCCTGGGCT 230
Db      58 ProArgSerArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77

Qy      231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGCGGAGGTGCTC 290
Db      78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97

Qy      291 CTGTCCCG 299
Db      98 LeuSerPro 100

RESULT 5
US-08-244-116B-15
; Sequence 15, Application US/08244116B
; Patent No. 5763159
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
```

```
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. 5763159th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHEetical: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
US-08-244-116B-15

Alignment Scores:
Pred. NO.:      1.13e-32      Length:      124
Score:          44.00      Matches:      44
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:    38.26%      Indels:      0
DB:              1      Gaps:      0

US-09-873-224A-147 (1-345) x US-08-244-116B-15 (1-124)
Qy      213 GAGGGCAGGTCTGGGCTCAGCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
Db      68 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGlyCys 87

Qy      273 GGGTGGCGAGGTGGCTCTCTCCCGGGGCTCTCCCGGCTCTGGGGGCCCAATGAC 332
Db      88 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 107

Qy      333 CCCCAGCGCAGG 344
Db      108 ProArgArgArg 111

RESULT 6
US-09-878-281A-164
; Sequence 164, Application US/09878281A
; Patent NO. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis, and therapy
; FILE REFERENCE: 35
```

; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 164
 ; LENGTH: 166
 ; TYPE: PR1
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-164

Alignment Scores:
 Pred. No.: 1,08e-32 Length: 166
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 4 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281A-164 (1-166)

QY 213 GAGGCGAGTCTGGGCTACGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
 QY 273 GGGTGGCGAGGTGGCTCTCCCGCGGGCTCTCCCGCGGGTCTCGCCGCGCCAAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 QY 333 CCCCGCGCGCAGG 344
 Db 112 ProArgArg 115

RESULT 7

US-08-290-665A-187
 ; Sequence 187, Application US/08290665A
 ; Patent No. 5882852

; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 187:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid

; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: HK10
 ; US-08-290-665A-187

Alignment Scores:
 Pred. No.: 1,06e-32 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-187 (1-191)

QY 213 GAGGCGAGTCTGGGCTACGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
 QY 273 GGGTGGCGAGGTGGCTCTCCCGCGGGCTCTCCCGCGGGTCTCGCCGCGCCAAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 QY 333 CCCCGCGCGCAGG 344
 Db 112 ProArgArg 115

RESULT 8

US-08-290-665A-188
 ; Sequence 188, Application US/08290665A
 ; Patent No. 5882852

; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 188:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:


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; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-188

Alignment Scores:
Pred. No.: 1.06e-32 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-188 (1-191)

Qy 213 GAGGCGAGGTCTGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProLeuTyGlyAsnGluGlyCys 91
Qy 273 GGGTGGCGAGGTGGCTCTCTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
Qy 333 CCCCAGGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 9
US-08-290-665A-189
; Sequence 189, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S2
US-08-290-665A-189

; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-188

Alignment Scores:
Pred. No.: 1.06e-32 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-188 (1-191)

Qy 213 GAGGCGAGGTCTGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProLeuTyGlyAsnGluGlyCys 91
Qy 273 GGGTGGCGAGGTGGCTCTCTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
Qy 333 CCCCAGGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 10
US-08-290-665A-190
; Sequence 190, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
US-08-290-665A-190

Alignment Scores:
Pred. No.: 1.06e-32 Length: 191

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Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-190 (1-191)

QY 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGATGAGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

QY 273 GGGTGGCGAGGTGGTCTCTGTCGCCGGGCTCTCGCCGCTCGTGGGCCCCAAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCCCGGCGCAGG 344

Db 112 ProArgArgArg 115

RESULT 11

US-08-290-665A-191

; Sequence 191, Application US/08290665A

; Patent No. 582852

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 191:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: Z4

US-08-290-665A-191

Alignment Scores:

Pred. No.: 191

Score: 44.00

Percent Similarity: 100.00%

Conservative: 0

Best Local Similarity: 100.00%

Mismatches: 0

Indels: 0

Gaps: 0

Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-191 (1-191)

QY 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGATGAGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

QY 273 GGGTGGCGAGGTGGTCTCTGTCGCCGGGCTCTCGCCGCTCGTGGGCCCCAAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCCCGGCGCAGG 344

Db 112 ProArgArgArg 115

RESULT 12

US-08-290-665A-192

; Sequence 192, Application US/08290665A

; Patent No. 582852

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 192:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORIGINAL SOURCE:

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: Z8

US-08-290-665A-192

Alignment Scores:

Pred. No.: 191

Score: 44.00

Percent Similarity: 100.00%

Conservative: 0

Best Local Similarity: 100.00%

Query Match: 38.26%

Indels: 0

Gaps: 0

Length: 191

Matches: 44

Conservative: 0

Mismatches: 0

Indels: 0

Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)

Qy 213 GAGGCGAGGTCCTGGCTCAGCCCGGTACCTTTGGCCCTATATGGAATGAGGGTGC 272
 Db 72 GluglyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
 Qy 273 GGGTGGCAGGGTGGCTCCTGTCCTCCCGCGGGCTCTGCGCGTGTGGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 Qy 333 CCCCAGGCGAGG 344
 Db 112 ProArgArgArg 115

RESULT 13

US-08-290-665A-193
 ; Sequence 193, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R. H. AND
 ; APPLICANT: PURCELL, R. H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; NUMBER OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 193:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: Z1
 US-08-290-665A-193

Alignment Scores:
 Pred. No.: 1.06e-32 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)

Qy 213 GAGGCGAGGTCCTGGCTCAGCCCGGTACCTTTGGCCCTATATGGAATGAGGGTGC 272

Db 72 GluglyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
 Qy 273 GGGTGGCAGGGTGGCTCCTGTCCTCCCGCGGGCTCTGCGCGTGTGGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 Qy 333 CCCCAGGCGAGG 344
 Db 112 ProArgArgArg 115

RESULT 14

US-08-290-665A-195
 ; Sequence 195, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R. H. AND
 ; APPLICANT: PURCELL, R. H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; NUMBER OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 195:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: Z6
 US-08-290-665A-195

Alignment Scores:
 Pred. No.: 1.06e-32 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-195 (1-191)

Qy 213 GAGGCGAGGTCCTGGCTCAGCCCGGTACCTTTGGCCCTATATGGAATGAGGGTGC 272

Db 72 GluglyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91

QY 273 GGCTGGCGAGGTGGCTCTCTGTCGCCGCGGGCTCTCGCCGCTGCTGGGGCCCAATGAC 332
 |||||
 Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
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 QY 333 CCCCAGCGAGG 344
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 Db 112 ProArgArgArg 115

RESULT 15

US-08-290-665A-196
 ; Sequence 196, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BURKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 196:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: Homosapiens
 INDIVIDUAL ISOLATE: Z7
 US-08-290-665A-196

Alignment Scores:
 Pred. No.: 1 06e-32 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-196 (1-191)

QY 213 GAGCGAGGTCTGGGCTACCGCGGTACCTTGCCCTATATCGGAATGAGGCTGC 272
 |||||
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
 |||||
 QY 273 GGCTGGCGAGGTGGCTCTCTGTCGCCGCGGGCTCTCGCCGCTGCTGGGGCCCAATGAC 332
 |||||
 Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 |||||

QY 333 CCCCAGCGAGG 344
 |||||
 Db 112 ProArgArgArg 115

Search completed: April 15, 2005, 00:42:32
 Job time : 21.5 secs

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OM nucleic - protein search, using frame_plus_n2p model

Run on: April 15, 2005, 00:39:15 ; Search time 47.5 Seconds
(without alignments)
4828.122 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 115

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Ygapop 60.0	Ygapext 60.0
Fgapop 6.0	Fgapext 7.0
Delop 6.0	Delext 7.0

Searched: 1421835 seqs, 332370683 residues

Word size: 1

Total number of hits satisfying chosen parameters: 2723274

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:

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-DB=Published_applications_AA -OFMT=fastan -SUFFIX=olig.rapb -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo
-TRANS=human40.cdi -LIST=45 -DOALIGN=200 -THR_SCORE=quality -THR_MIN=1
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USAR=US9873224 @cgn1_1_130 @runat_14042005_112007_16587
-NCPU=6 -ICPU=3 -NO_WAP -LARGEQUERY -NEG_SCORES=0 -WAIT_DSPBLOCK=100
-LONGLOG -DRV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAEXT=60
-FGAPOP=6 -FGAEXT=7 -YGAPOP=60 -YGAEXT=6 -DELOP=6 -DELEXT=7

Database :

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pcp.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pcp.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pcp.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pcp.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pcp.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pcp.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pcp.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pcp.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pcp.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pcp.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pcp.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pcp.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pcp.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pcp.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pcp.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pcp.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pcp.*
- 18: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pcp.*
- 19: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pcp.*
- 20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query

No.	Score	Match	Length	DB	ID	Description
1	115	100.0	115	10	US-09-873-224-148	Sequence 148, App
2	98	85.2	115	9	US-09-851-138-50	Sequence 50, Appl
3	98	85.2	115	10	US-09-899-046-148	Sequence 148, App
4	98	85.2	115	10	US-09-878-281-148	Sequence 148, App
5	83	72.2	100	15	US-10-651-165-233	Sequence 233, App
6	44	38.3	124	14	US-10-396-964-15	Sequence 15, Appl
7	44	38.3	166	10	US-09-899-046-164	Sequence 164, App
8	44	38.3	166	10	US-09-878-281-164	Sequence 164, App
9	44	38.3	166	10	US-09-873-224-164	Sequence 164, App
10	44	38.3	189	15	US-10-450-649-9	Sequence 9, Appli
11	44	38.3	319	15	US-10-651-165-217	Sequence 217, App
12	44	38.3	319	15	US-10-651-165-219	Sequence 219, App
13	38	33.0	130	14	US-10-368-569-19	Sequence 19, Appl
14	38	33.0	161	14	US-10-230-381-5	Sequence 5, Appli
15	38	33.0	191	14	US-10-230-381-53	Sequence 53, Appl
16	38	33.0	191	14	US-10-230-381-54	Sequence 54, Appl
17	38	33.0	191	14	US-10-230-381-55	Sequence 55, Appl
18	38	33.0	193	14	US-10-230-381-50	Sequence 50, Appl
19	38	33.0	193	14	US-10-230-381-51	Sequence 51, Appl
20	38	33.0	193	14	US-10-230-381-52	Sequence 52, Appl
21	38	33.0	209	14	US-10-230-381-3	Sequence 3, Appli
22	38	33.0	209	14	US-10-230-381-7	Sequence 7, Appli
23	38	33.0	373	14	US-10-230-381-11	Sequence 11, Appl
24	38	33.0	373	14	US-10-230-381-13	Sequence 13, Appl
25	38	33.0	373	14	US-10-230-381-15	Sequence 15, Appl
26	36	31.3	166	10	US-09-899-046-194	Sequence 194, App
27	36	31.3	166	10	US-09-878-281-194	Sequence 194, App
28	36	31.3	166	10	US-09-873-224-194	Sequence 194, App
29	34	29.6	113	9	US-09-921-397-78	Sequence 78, Appl
30	34	29.6	122	14	US-10-098-8578-1	Sequence 1, Appli
31	34	29.6	126	10	US-09-899-046-166	Sequence 166, App
32	34	29.6	126	10	US-09-878-281-166	Sequence 166, App
33	34	29.6	126	10	US-09-873-224-166	Sequence 166, App
34	34	29.6	151	14	US-10-292-129-14	Sequence 14, Appl
35	34	29.6	182	9	US-09-929-955-2	Sequence 2, Appli
36	34	29.6	182	13	US-10-104-966-2	Sequence 2, Appli
37	34	29.6	182	15	US-10-719-619-2	Sequence 2, Appli
38	34	29.6	190	14	US-10-268-562-1	Sequence 1, Appli
39	34	29.6	190	15	US-10-450-649-7	Sequence 7, Appli
40	34	29.6	235	15	US-10-365-620-58	Sequence 58, Appl
41	34	29.6	235	17	US-10-912-969-60	Sequence 60, Appl
42	34	29.6	249	15	US-10-365-620-54	Sequence 54, Appl
43	34	29.6	249	17	US-10-912-969-56	Sequence 56, Appl
44	34	29.6	258	15	US-10-651-165-196	Sequence 196, App
45	34	29.6	319	15	US-10-651-165-218	Sequence 218, App

ALIGNMENTS

RESULT 1
US-873-224-148
; Sequence 148, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:

APPLICANT: <Unknown>

TITLE OF INVENTION: New sequences of hepatitis C virus
genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

CORRESPONDENCE ADDRESS:

STREET: Industriepark Zwijnaarde 7, box 4

CITY: Ghent

COUNTRY: Belgium

ZIP: B-9052

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION NUMBER: US/09/873,224

FILING DATE: 05-Jun-2001

```
;
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 148:
US-09-873-224-148
Alignment Scores:
Pred. No.: 4.22e-98 Length: 115
Score: 115.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-873-224-148 (1-115)
QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCCCGCCACAGG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsnProGlyHisArg 20
QY 61 ACGTAAAGTCCAGCGCGGTCAGATCTTGGTGAGTTTACGTCTACACGACGAGG 120
Db 21 ThrLeuSerSerGlnAlaValArgSerLeuValGluPheThrCysTyrHisAlaGly 40
QY 121 GCCCCAGTTGGTGTGCGAGTCGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGTA 180
Db 41 AlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsnLeuAlaVal 60
QY 181 GGGGCCAACCATCCCGCGCGCCGAAACCCGAGCGAGTCTCTGGGCTCAGCCCGGGT 240
Db 61 GlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeuSerProGly 80
QY 241 ACCCTGGCCCTATATGGGAATGAGGCTGCGGGTGGGCGAGGTGGCTCTCTCCCGCG 300
Db 81 ThrLeuGlyProTyrMetGlyMetArgAlaAlaGlyGlnGlySerCysProArg 100
QY 301 GCGGCTCTCGCGTGTGGGGCCCAATGACCCCGGCGCAGGA 345
Db 101 AlaAlaLeuAlaArgArgGlyAlaGlnMetThrProGlyAlaGly 115

RESULT 2
US-09-851-138-50
; Sequence 50, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; FILING DATE:
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-09-851-138-50
Alignment Scores:
Pred. No.: 2.78e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-851-138-50 (1-115)
QY 51 CGGCCACAGAGCGTTAAAGTTCACGCGCGGTCCAGATCGTTGGTGGAGTTACGTCGTA 110
Db 18 ArgProGlnAspValLysPheProGlyGlyGlnIleValGlyValTyrValLeu 37
QY 111 CCACGAGGGGCCCCAGTTGGTGTGCGTGCAGTCCGCAAGACTCCGAGCGGTCCGAA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CTCCGAGTAGCGCCCAACCCATCCCGGCGCGCCGAGGAGGAGTCTCGGGCT 230
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGCTGCGGGTGGGACAGGTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGGTCTCGCCGTCGTGGGCCCCCAATGACCCCGGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 3
US-09-899-046-148
; Sequence 148, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
```

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; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-148

Alignment Scores:
Pred. No.: 2,78e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-899-046-148 (1-115)

QY 51 CGGCCACAGGACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGGAGTTTACGTGCTA 110
DB 18 ArgProGlnAspValLysPheProGlyGlyGlnIleValGlyGlyValtyrValleu 37
QY 111 CCACGAGGGGCCCCCAGTGGGTGCGTGCAGTGCAGCAAGACTTCCGAGCGGTCCGCAA 170
DB 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CCTGCGAGTAGCGCCCAACCCATCCAGGCGCGCCGACCCGAGGGGAGGTCTCTGGGCT 230
DB 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGGCTC 290
DB 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGGCTCTCGCCCGTCTCGCCCGTCTGGGGGCCCAATGACCCCGCGCAGG 344
DB 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 5
US-10-651-165-233
; Sequence 233, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651.165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)-(17)
; OTHER INFORMATION: Xaa is any amino acid
US-10-651-165-233

Alignment Scores:
Pred. No.: 2,59e-68 Length: 100
Score: 83.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 72.17% Indels: 0
DB: 15 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-651-165-233 (1-100)

QY 51 CGGCCACAGGACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGGAGTTTACGTGCTA 110
DB 18 ArgProGlnAspValLysPheProGlyGlyGlnIleValGlyGlyValtyrValleu 37
QY 111 CCACGAGGGGCCCCCAGTGGGTGCGTGCAGTGCAGCAAGACTTCCGAGCGGTCCGCAA 170
DB 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57

```

US-09-873-224A-147 (1-345) x US-10-396-964-15 (1-124)

Qy	213	GAGGCGAGGTCTCTGGGCTCAGCCGCGGTACCTTGGCCCCCTATATGGGAATGAGGCTGC	272
Db	68	GlUGlyArgssrTpAlaInProGlyTyPrtPrpLeuIyrGlyAsnGlUGlyCyS	87
Qy	273	GGGTGGGCGAGGTGGCTCCTCTCCCGCGGGGGTCTCGCCGTCGTGGGGGCCCAAAATGAC	332
Db	88	GlyTTPAlaGlyTrpLeuLeuSerProArgGlySerArgProserTrpGlyProasnAsp	107
Qy	333	CCCCGGCGCAGG	344
Db	108	ProArgArgArg	111

```

RESULT 7
US-09-899-046-164
/ Sequence 164, Application US/09899046
/ Publication No. US20030008274A1
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: New sequences o
/ TITLE OF INVENTION: genotypes for d
/ NUMBER OF SEQUENCES: 270
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0.
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/899,046
/ FILING DATE:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/362,455
/ FILING DATE:
/ INFORMATION FOR SEQ ID NO: 164:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 166 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-09-899-046-164

```

Alignment Scores:

Alignment Scores:		
Pred. No.:	4.63e-32	Length: 166
Score:	44.00	Matches: 44
Percent Similarity:	100.00%	Conservative: 0
Best Local Similarity:	100.00%	Mismatches: 0
Query Match:	38.26%	Indels: 0
DB:	10	Gaps: 0

US-09-873-224A-147 (1-345) x US-09-899-046-164 (1-166)

Qy	213	GAGGCGAGGTCCTGGGCTCAGCCCGGGTACCTTTGGCCCTATATGGGAATGAGGGCTGC	272
Db	72	GluGlyArgSerTrpAlaGlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCys	91
Qy	273	GGGTGGCGAGGTGGTCCTGTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCAATGNC	332
Db	92	GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp	111
Qy	333	CCCCGGGCGAGG	344
Db	112	ProArgArg	115

Alignment Scores:	4.87e-32	Length:	124
Pred. No.:	44.0	Matches:	144
Score:	4.00e-06	Mismatches:	0
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	38.26%	Indels:	0
DB:	14	Gaps:	0

RESULT 8
 US-09-878-281-164
 : Sequence 164 Application US/09878281
 : Publication No. US20030032005A1
 : GENERAL INFORMATION:
 : APPLICANT:
 : TITLE OF INVENTION: New sequences of hepatitis C virus
 : TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy


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; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-878-281-164

Alignment Scores:
Pred. No.: 4.63e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281-164 (1-166)

Qy 213 GAGGCGAGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
Qy 273 GGGTGGCGAGGTGGCTCTCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
Qy 333 CCCCGCGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 9
US-09-873-224-164
; Sequence 164, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99

```

```

; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 164:
US-09-873-224-164

Alignment Scores:
Pred. No.: 4.63e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-873-224-164 (1-166)

Qy 213 GAGGCGAGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
Qy 273 GGGTGGCGAGGTGGCTCTCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
Qy 333 CCCCGCGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 10
US-10-450-649-9
; Sequence 9, Application US/10450649
; Publication No. US20040052819A1
; GENERAL INFORMATION:
; APPLICANT: Mandl, Christian
; TITLE OF INVENTION: ATTENUATED LIVE VACCINE
; FILE REFERENCE: U 014666-0
; CURRENT APPLICATION NUMBER: US/10/450,649
; CURRENT FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: PCT/AT02/00046
; PRIOR FILING DATE: 2002-02-11
; PRIOR APPLICATION NUMBER: A 272/2001 AT
; PRIOR FILING DATE: 2001-02-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Hepatitis C Virus 3
US-10-450-649-9

Alignment Scores:
Pred. No.: 4.53e-32 Length: 189
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 15 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-450-649-9 (1-189)

Qy 213 GAGGCGAGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTGC 272
Db 71 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 90
Qy 273 GGGTGGCGAGGTGGCTCTCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
Db 91 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 110
Qy 333 CCCCGCGCGCAGG 344

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Db      111 ProArgArgArg 114
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RESULT 11
US-10-651-165-217
; Sequence 217, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.:      4,13e-32      Length:      319
Score:          44.00        Matches:      44
Percent Similarity: 100.00%   Conservat:    0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    38.26%      Indels:      0
DB:             15          Gaps:       0

US-09-873-224A-147 (1-345) x US-10-651-165-217 (1-319)
QY      213 GAGGCGAGGTCCTGGGCTACGCCGGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
      |||||||
Db      72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY      273 GGGTGGCGAGGTCCTGCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
      |||||||
Db      92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY      333 CCCC GCCG CAGG 344
      |||||||
Db      112 ProArgArgArg 115

RESULT 12
US-10-651-165-219
; Sequence 219, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-219

Alignment Scores:
Pred. No.:      4,13e-32      Length:      319
Score:          44.00        Matches:      44
Percent Similarity: 100.00%   Conservat:    0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    38.26%      Indels:      0
DB:             15          Gaps:       0

US-09-873-224A-147 (1-345) x US-10-651-165-217 (1-319)
QY      213 GAGGCGAGGTCCTGGGCTACGCCGGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
      |||||||
Db      72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY      273 GGGTGGCGAGGTCCTGCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
      |||||||
Db      92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY      333 CCCC GCCG CAGG 344
      |||||||
Db      112 ProArgArgArg 115

RESULT 13
US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; TITLE OF INVENTION: HCV Core Protein Sequences
; FILE REFERENCE: CDS-0288
; CURRENT APPLICATION NUMBER: US/10/268,569
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:
Pred. No.:      1,85e-26      Length:      130
Score:          38.00        Matches:      38
Percent Similarity: 100.00%   Conservat:    0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    33.04%      Indels:      0
DB:             14          Gaps:       0

US-09-873-224A-147 (1-345) x US-10-268-569-19 (1-130)
QY      213 GAGGCGAGGTCCTGGGCTACGCCGGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
      |||||||
Db      72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY      273 GGGTGGCGAGGTCCTGCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCA 326
      |||||||
Db      92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109
      |||||||

RESULT 14
US-10-230-381-5
; Sequence 5, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
```

```
Db      111 ProArgArgArg 114
|||||
RESULT 11
US-10-651-165-217
; Sequence 217, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.:      4,13e-32      Length:      319
Score:          44.00        Matches:      44
Percent Similarity: 100.00%   Conservat:    0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    38.26%      Indels:      0
DB:             15          Gaps:       0

US-09-873-224A-147 (1-345) x US-10-651-165-217 (1-319)
QY      213 GAGGCGAGGTCCTGGGCTACGCCGGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
      |||||||
Db      72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY      273 GGGTGGCGAGGTCCTGCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
      |||||||
Db      92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY      333 CCCC GCCG CAGG 344
      |||||||
Db      112 ProArgArgArg 115

RESULT 12
US-10-651-165-219
; Sequence 219, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
```

; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-230-381-5

Alignment Scores:
Pred. No.: 1.78e-26 Length: 161
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-5 (1-161)

Qy 231 CAGCCCGGCTACCTTGCCCTATATGGGAATGAGGCTGGGGTGGCAGGTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
Qy 291 CTGTCCCCCGCGGCTCTCGCCCGTCGTGGGGCCCCAAATGACCCCCCGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 15

US-10-230-381-53
; Sequence 53, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53
; LENGTH: 191
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-53

Alignment Scores:
Pred. No.: 1.73e-26 Length: 191
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-53 (1-191)

Qy 231 CAGCCCGGCTACCTTGCCCTATATGGGAATGAGGCTGGGGTGGCAGGTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
Qy 291 CTGTCCCCCGCGGCTCTCGCCCGTCGTGGGGCCCCAAATGACCCCCCGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

Search completed: April 15, 2005, 00:51:48
Job time : 48.5 secs

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Sequence 49, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
FILING DATE: 21 Apr 1997
APPLICATION NUMBER: US/08/836,075A
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 309 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-49

Query Match 89.6%; Score 309; DB 3; Length 309;
Best Local Similarity 100.0%; Pred. No. 2,3e-147;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAAACACAAAGAAACCAAAAGAAACCAACCAACCCCGGCCACAGG 60
DB 1 ATGAGCACACTTCTTAAACACAAAGAAACCAAAAGAAACCAACCAACCCCGGCCACAGG 60
QY 61 AGCTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTTACCAACGACAGG 120
DB 61 AGCTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTTACCAACGACAGG 120
QY 121 GCCCCAGTTGGTGTGCGTGCAGTCGCAAGACTTCCGAGCGGTTCGCAACCTCGCAGTA 180
DB 121 GCCCCAGTTGGTGTGCGTGCAGTCGCAAGACTTCCGAGCGGTTCGCAACCTCGCAGTA 180
QY 181 GCGGCCAACCCATCCCAAGCGCGCGCGCAACCGAGGGCAGGTCTCGGCTCAGCCCGGT 240
DB 181 GCGGCCAACCCATCCCAAGCGCGCGCGCAACCGAGGGCAGGTCTCGGCTCAGCCCGGT 240
QY 241 ACCCTTGGCCCTATATGGAAATGAGGCTGCGGGTGGCAGGCTGCTCTGTCCTCCCGC 300
DB 241 ACCCTTGGCCCTATATGGAAATGAGGCTGCGGGTGGCAGGCTGCTCTGTCCTCCCGC 300
QY 301 GCGGCTCTC 309

DB 301 GCGGCTCTC 309

RESULT 3
US-08-931-855B-13
Sequence 13, Application US/08931855B
Patent No. 6692751
GENERAL INFORMATION:
APPLICANT: ZEBEDEE, SUZANNE
APPLICANT: INCHAUSPE, GENEVIEVE
APPLICANT: NASOFF, MARC S.
APPLICANT: PRINCE, ALFRED M.
APPLICANT: HELTING, TORSTEN B.
APPLICANT: DREVIN, HAKAN
APPLICANT: NUNN, MICHAEL F.
TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
TITLE OF INVENTION: RECOMBINANT VIRAL ANTIGENS
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: James P. Hillman
STREET: 45010 Pawnee Drive
CITY: Fremont
STATE: CA
COUNTRY: USA
ZIP: 94539
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 5.0 Dos Txt
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/931,855B
FILING DATE: Sep 16, 1997
CLASSIFICATION: 435
CLASSIFICATION: 435
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US08/563,733
FILING DATE: 8-NOV-1995
APPLICATION NUMBER: US08/049,531
FILING DATE: 20-APR-1993
APPLICATION NUMBER: US07/344,237
FILING DATE: 26-APR-1989
APPLICATION NUMBER: US07/191,229
FILING DATE: 06-MAY-1988
APPLICATION NUMBER: US07/206,499
FILING DATE: 13-JUN-1988
APPLICATION NUMBER: US07/258,016
FILING DATE: 14-OCT-1988
APPLICATION NUMBER: US08/272,271
FILING DATE: 8-JUL-1994
APPLICATION NUMBER: US07/616,369
FILING DATE: 21-NOV-1990
APPLICATION NUMBER: US07/573,643
FILING DATE: 27-AUG-1990
ATTORNEY/AGENT INFORMATION:
NAME: James P. Hillman Esq.
REGISTRATION NUMBER: 29748
REFERENCE/DOCKET NUMBER: 55467/69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 651 3991
TELEFAX: (510) 651 5991
TELEX:
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
HYPOTHETICAL: no

```

; ANTI-SENSE: no
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 16-375
US-08-931-855B-13

Query Match      12.5%; Score 43; DB 4; Length 378;
Best Local Similarity 100.0%; Pred. No. 4.7e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGTCTCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 253
      |||||||
Db 227 CCGAGGCGAGTCTCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 269
      |||||||

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RESULT 4
US-08-441-971-60
; Sequence 60, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
;   DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
US-08-441-971-60

Query Match      12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGTCTCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 253
      |||||||
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 254
      |||||||

```

```

RESULT 5
US-08-221-653-60
; Sequence 60, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
;   DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
US-08-221-653-60

Query Match      12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGTCTCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 253
      |||||||
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 254
      |||||||

RESULT 6
US-08-442-144A-60
; Sequence 60, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
;   DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148

```

```
;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yacko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nac5
; US-08-442-144A-60

Query Match 12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTGGCTCAGCCCGGTACCCCTTGGCCCT 253
Db 212 CCGAGGCGAGTCTGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 7
US-08-441-970-60
; Sequence 60, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid

;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yacko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nac5
; US-08-442-144A-60

Query Match 12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTGGCTCAGCCCGGTACCCCTTGGCCCT 253
Db 212 CCGAGGCGAGTCTGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 8
US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
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STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homopapiens
INDIVIDUAL ISOLATE: Z1
US-08-290-665A-141

Query Match 12.5%; Score 43; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 253
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 9

US-09-194-949A-5
Sequence 5, Application US/09194949A
Patent No. 6653125
GENERAL INFORMATION:
APPLICANT: Merck & Co., Inc.
APPLICANT: Donnelly, John J.
APPLICANT: Fu, Tong-Ming
APPLICANT: Liu, Margaret A.
APPLICANT: Shiver, John W.
TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
FILE REFERENCE: 19732YP
CURRENT APPLICATION NUMBER: US/09/194,949A
CURRENT FILING DATE: 2000-02-17
PRIOR APPLICATION NUMBER: PCT/US97/09884
PRIOR FILING DATE: 1997-06-06
PRIOR APPLICATION NUMBER: 60/020,494
PRIOR FILING DATE: 1996-06-11
PRIOR APPLICATION NUMBER: 60/033,534
PRIOR FILING DATE: 1996-12-20
PRIOR APPLICATION NUMBER: 08/865,823
PRIOR FILING DATE: 1997-05-30
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 573
TYPE: DNA
ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 12.5%; Score 43; DB 4; Length 573;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 253
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 10

PCT-US95-10398-141
Sequence 141, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA

ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homopapiens
INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-141

Query Match 12.5%; Score 43; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 253
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 11

US-08-836-075A-65
Sequence 65, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: EP 94870166.9
;; FILING DATE: 21 Oct 1994
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: EP 95870076.7
;; FILING DATE: 28 Jun 1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: KAMMERER, PATRICIA A.
;; REGISTRATION NUMBER: 29, 775
;; REFERENCE/DOCKET NUMBER: INNS:004
;; INFORMATION FOR SEQ ID NO: 65:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 831 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; US-08-836-075A-65

Query Match 12.5%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCCCT 253
Db 227 CCGAGGCGAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCCCT 269

RESULT 12

US-08-290-665A-142
; Sequence 142, Application US/08290665A
; Patent No. 5882852

GENERAL INFORMATION:

;; APPLICANT: BURKH, J., MILLER, R.H. AND
;; APPLICANT: PURCELL, R.H.
;; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
;; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
;; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
;; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
;; NUMBER OF SEQUENCES: 263
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA
;; ZIP: 10154

COMPUTER READABLE FORM:

;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/290,665A
;; FILING DATE: 15-AUG-1994

CLASSIFICATION:

;; ATTORNEY/AGENT INFORMATION:

;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 36,459
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792

INFORMATION FOR SEQ ID NO: 142:

;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 573 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear

;; ORIGINAL SOURCE:
;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: Z5
;; US-08-290-665A-142

Query Match 11.6%; Score 40; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.6e-10;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCC 250
Db 212 CCGAGGCGAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCC 251

RESULT 13

PCT-US95-10398-142
; Sequence 142, Application PC/TUS9510398
; GENERAL INFORMATION:

;; APPLICANT: BURKH, J., MILLER, R.H. AND
;; APPLICANT: PURCELL, R.H.

;; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
;; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
;; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
;; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
;; NUMBER OF SEQUENCES: 263
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA
;; ZIP: 10154

COMPUTER READABLE FORM:

;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US95/10398
;; FILING DATE: 15-AUG-1995

CLASSIFICATION:

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/086,428
;; FILING DATE: 29 JUNE 1993
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/290/665
;; FILING DATE: 15 AUGUST 1994

ATTORNEY/AGENT INFORMATION:

;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 36,459
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792

INFORMATION FOR SEQ ID NO: 142:

;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 573 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear

ORIGINAL SOURCE:

;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: Z5

PCT-US95-10398-142

Query Match 11.6%; Score 40; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.6e-10;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCC 250

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2005, 22:50:14 ; Search time 507 Seconds
(without alignments)
4128.235 Million cell updates/sec

Title: US-09-873-224a-147

Perfect score: 345

Sequence: 1 atgagcacattcttaaac.....aaatgaccccgccgagga 345

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 5622541 seqs, 303355566 residues

Word size : 0

Total number of hits satisfying chosen parameters: 11245082

Minimum DB seq length: 0

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Post-processing: Listing first 45 summaries

Database :

Published Applications NA:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
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- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
- 17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
- 18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 20: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 21: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 22: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	345	100.0	345	10	US-09-873-224-147
2	309	89.6	309	9	US-09-851-138-49
3	296	85.8	346	10	US-09-899-046-147
4	296	85.8	346	10	US-09-878-281-147
5	43	12.5	378	18	US-10-677-956-13
6	43	12.5	573	10	US-09-194-949-5
7	43	12.5	573	19	US-10-664-391-5
8	43	12.5	831	9	US-09-851-138-65
9	31	9.0	152	9	US-09-921-397-39
10	31	9.0	234	9	US-09-921-397-41
11	31	9.0	300	16	US-10-071-867-16

12	31	9.0	310	9	US-09-921-397-114	Sequence 114, Appl
13	31	9.0	327	9	US-09-851-138-1	Sequence 1, Appl
14	31	9.0	339	9	US-09-921-397-115	Sequence 115, Appl
15	31	9.0	360	9	US-09-306-780-3	Sequence 3, Appl
16	31	9.0	378	18	US-10-677-956-7	Sequence 7, Appl
17	31	9.0	378	18	US-10-677-956-9	Sequence 9, Appl
18	31	9.0	450	9	US-09-306-780-5	Sequence 5, Appl
19	31	9.0	480	16	US-10-071-867-15	Sequence 15, Appl
20	31	9.0	480	19	US-10-664-038-11	Sequence 11, Appl
21	31	9.0	480	19	US-10-664-038-12	Sequence 12, Appl
22	31	9.0	480	19	US-10-664-038-13	Sequence 13, Appl
23	31	9.0	480	19	US-10-664-038-14	Sequence 14, Appl
24	31	9.0	480	19	US-10-664-038-15	Sequence 15, Appl
25	31	9.0	480	19	US-10-664-038-16	Sequence 16, Appl
26	31	9.0	483	9	US-09-306-780-7	Sequence 7, Appl
27	31	9.0	499	19	US-10-664-038-2	Sequence 2, Appl
28	31	9.0	528	9	US-09-306-780-19	Sequence 19, Appl
29	31	9.0	540	17	US-10-150-283-2	Sequence 2, Appl
30	31	9.0	573	9	US-09-306-780-9	Sequence 9, Appl
31	31	9.0	595	18	US-10-601-020-1	Sequence 1, Appl
32	31	9.0	708	17	US-10-365-620-57	Sequence 57, Appl
33	31	9.0	708	19	US-10-912-969-59	Sequence 59, Appl
34	31	9.0	750	17	US-10-365-620-53	Sequence 53, Appl
35	31	9.0	750	19	US-10-912-969-55	Sequence 55, Appl
36	31	9.0	843	9	US-09-306-780-11	Sequence 11, Appl
37	31	9.0	1380	17	US-10-365-620-59	Sequence 59, Appl
38	31	9.0	1380	19	US-10-912-969-61	Sequence 61, Appl
39	31	9.0	1380	19	US-10-913-171-40	Sequence 40, Appl
40	31	9.0	1422	17	US-10-365-620-55	Sequence 55, Appl
41	31	9.0	1422	19	US-10-912-969-57	Sequence 57, Appl
42	31	9.0	1422	19	US-10-913-171-38	Sequence 38, Appl
43	31	9.0	2025	17	US-10-387-336-8	Sequence 8, Appl
44	31	9.0	2031	17	US-10-387-336-7	Sequence 7, Appl
45	31	9.0	2433	9	US-09-973-025-49	Sequence 49, Appl

ALIGNMENTS

RESULT 1

; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:

APPLICANT: <Unknown>

TITLE OF INVENTION: New sequences of hepatitis C virus

NUMBER OF SEQUENCES: 270

CORRESPONDENCE ADDRESS:

STREET: Industriepark Zwijnaarde 7, box 4

CITY: Ghent

COUNTRY: Belgium

ZIP: B-9052

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/873,224

FILING DATE: 05-Jun-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Innogenetics sa.

TELECOMMUNICATION INFORMATION:

TELEPHONE: 00 32 9 241 07 11

TELEFAX: 00 32 9 241 07 99

INFORMATION FOR SEQ ID NO: 147:

SEQUENCE CHARACTERISTICS:

LENGTH: 345 base pairs

```
;
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..345
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
; SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match      100.0%; Score 345; DB 10; Length 345;
Best Local Similarity 100.0%; Pred. No. 3.3e-172;
Matches 345; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGGCCACAGG 60
Db 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGGCCACAGG 60
QY 61 ACCTTAAGTTCCAGGCGCGGTGAGTCTGTTGGTGGAGTTTACGTGCTACCAACGCGAGG 120
Db 61 ACCTTAAGTTCCAGGCGCGGTGAGTCTGTTGGTGGAGTTTACGTGCTACCAACGCGAGG 120
QY 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 180
Db 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 180
QY 181 GCGGCAACCCATCCAGGCGCGCGGACCGAGGCGAGTCTCGGGCTCAGCCCGGCT 240
Db 181 GCGGCAACCCATCCAGGCGCGCGGACCGAGGCGAGTCTCGGGCTCAGCCCGGCT 240
QY 241 ACCCTTGGCCCTTATATGGGAATGAGGCTGCGGGTGGGAGGCTGCTCTGCTCCCGC 300
Db 241 ACCCTTGGCCCTTATATGGGAATGAGGCTGCGGGTGGGAGGCTGCTCTGCTCCCGC 300
QY 301 GCGGCTCTCGCCGTGCTGGGGCCCAATGACCCCGGCGCAGGA 345
Db 301 GCGGCTCTCGCCGTGCTGGGGCCCAATGACCCCGGCGCAGGA 345

RESULT 2
US-09-851-138-49
; Sequence 49, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
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;
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-851-138-49

Query Match      89.8%; Score 309; DB 9; Length 309;
Best Local Similarity 100.0%; Pred. No. 3.8e-153;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGGCCACAGG 60
Db 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGGCCACAGG 60
QY 61 ACCTTAAGTTCCAGGCGCGGTGAGTCTGTTGGTGGAGTTTACGTGCTACCAACGCGAGG 120
Db 61 ACCTTAAGTTCCAGGCGCGGTGAGTCTGTTGGTGGAGTTTACGTGCTACCAACGCGAGG 120
QY 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 180
Db 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 180
QY 181 GCGGCAACCCATCCAGGCGCGCGGACCGAGGCGAGTCTCGGGCTCAGCCCGGCT 240
Db 181 GCGGCAACCCATCCAGGCGCGCGGACCGAGGCGAGTCTCGGGCTCAGCCCGGCT 240
QY 241 ACCCTTGGCCCTTATATGGGAATGAGGCTGCGGGTGGGAGGCTGCTCTGCTCCCGC 300
Db 241 ACCCTTGGCCCTTATATGGGAATGAGGCTGCGGGTGGGAGGCTGCTCTGCTCCCGC 300
QY 301 GCGGCTCTC 309
Db 301 GCGGCTCTC 309

RESULT 3
US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
```

US-09-878-281-147

Query Match 85.8%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 2.8e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY 50 CCGGCCACAGGAGCTTAAAGTTCCAGGCGGGGTTCAGATGTTGGTGAGATTACGTGCT 109
|
|
|
DB 51 CCGGCCACAGGAGCTTAAAGTTCCAGGCGGGGTTCAGATGTTGGTGAGATTACGTGCT 110
|
|
|
QY 110 ACCACGAGGGGGCCCCCAGTTGGGTGTCGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 169
|
|
|
DB 111 ACCACGAGGGGGCCCCCAGTTGGGTGTCGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 170
|
|
|
QY 170 ACCTCGCAGTAGGCGCAACCACCTCCACGAGGGCGCGCGAACCAGGCGCAGGTCTTGGGC 229
|
|
|
DB 171 ACCTCGCAGTAGGCGCAACCACCTCCACGAGGGCGCGCGAACCAGGCGCAGGTCTTGGGC 230
|
|
|
QY 230 TCAGCCGGGTACCTTTGGCCCTATATGGAATGAGGGCTGCGGGTGGGCGAGGTGGCT 289
|
|
|
DB 231 TCAGCCGGGTACCTTTGGCCCTATATGGAATGAGGGCTGCGGGTGGGCGAGGTGGCT 290
|
|
|
QY 290 CCTGTCCC CGCGGGCTCTCGCCGTCGTGGGCGCCAAATGACCCCGGCGCAGGA 345
|
|
|
DB 291 CCTGTCCC CGCGGGCTCTCGCCGTCGTGGGCGCCAAATGACCCCGGCGCAGGA 346
|
|
|

RESULT 5
US-10-677-956-13
; Sequence 13, Application US/10677956
; Publication No. US20040214163A1
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
; INCHAUSPE, GENEVIEVE
; NASOFF, MARC S.
; PRINCE, ALFRED M.
; HELTING, TORSTEN B.
; DREVIN, HAKAN
; NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/677,956
; FILING DATE: 01-Oct-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/931,855B
; FILING DATE: Sep 16, 1997
; APPLICATION NUMBER: US08/563,733
; FILING DATE: 8-NOV-1995
; APPLICATION NUMBER: US08/049,531
; FILING DATE: 20-APR-1993
; APPLICATION NUMBER: US07/344,237
; FILING DATE: 26-APR-1989
; APPLICATION NUMBER: US07/191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: US07/206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: US07/258,016
; FILING DATE: 14-OCT-1988

APPLICATION NUMBER: US08/272,271
FILING DATE: 8-JUL-1994
APPLICATION NUMBER: US07/616,369
FILING DATE: 21-NOV-1990
APPLICATION NUMBER: US07/573,643
FILING DATE: 27-AUG-1990
ATTORNEY/AGENT INFORMATION:
NAME: James P. Hillman Esq.
REGISTRATION NUMBER: 29748
REFERENCE/DOCKET NUMBER: 55467/69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 651 3991
TELEFAX: (510) 651 5991
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
HYPOTHETICAL: no
ANTI-SENSE: no
FEATURE:
NAME/KEY: CDS
LOCATION: 16-375
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-677-956-13

Query Match 12.5%; Score 43; DB 18; Length 378;
Best Local Similarity 100.0%; Pred. No. 2.3e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 211 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGGCCCT 253
DB 227 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGGCCCT 269

RESULT 6

US-09-194-949-5
Sequence 5, Application US/09194949
Publication No. US20030083987A1
GENERAL INFORMATION:
APPLICANT: Merck & Co., Inc.
APPLICANT: Donnelly, John J.
APPLICANT: Fu, Tong-Ming
APPLICANT: Liu, Margaret A.
APPLICANT: Shiver, John W.
TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
FILE REFERENCE: 19732YP
CURRENT APPLICATION NUMBER: US/09/194,949
CURRENT FILING DATE: 2000-02-17
PRIOR APPLICATION NUMBER: PCT/US97/09884
PRIOR FILING DATE: 1997-06-06
PRIOR APPLICATION NUMBER: 60/020,494
PRIOR FILING DATE: 1996-06-11
PRIOR APPLICATION NUMBER: 60/033,534
PRIOR FILING DATE: 1996-12-20
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 573
TYPE: DNA
ORGANISM: Hepatitis C Virus
US-09-194-949-5

Query Match 12.5%; Score 43; DB 10; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.2e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 211 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGGCCCT 253
DB 212 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGGCCCT 254

RESULT 7

US-10-664-391-5
Sequence 5, Application US/10664391
Publication No. US20050074752A1
GENERAL INFORMATION:
APPLICANT: Donnelly, John J.
APPLICANT: Liu, Margaret A.
APPLICANT: Shiver, John W.
APPLICANT: Fu, Tong-Ming
TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
FILE REFERENCE: 19732YP
CURRENT APPLICATION NUMBER: US/10/664,391
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/US97/09884
PRIOR FILING DATE: 1997-06-06
PRIOR APPLICATION NUMBER: 60/033,534
PRIOR FILING DATE: 1996-12-20
PRIOR APPLICATION NUMBER: 60/020,494
PRIOR FILING DATE: 1996-06-11
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 573
TYPE: DNA
ORGANISM: Hepatitis C Virus
US-10-664-391-5

Query Match 12.5%; Score 43; DB 19; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.2e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 211 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGGCCCT 253
DB 212 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGGCCCT 254

RESULT 8

US-09-851-138-65
Sequence 65, Application US/09851138
Publication No. US20020183508A1
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.


```
;
;   REGISTRATION NUMBER: 29,775
;   REFERENCE/DOCKET NUMBER: INNS:004
;   INFORMATION FOR SEQ ID NO: 65:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 831 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;     MOLECULE TYPE: cDNA
;     HYPOTHETICAL: NO
;     ANTI-SENSE: NO
;     SEQUENCE DESCRIPTION: SEQ ID NO: 65:
US-09-851-138-65

Query Match      12.5%; Score 43; DB 9; Length 831;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGGTCCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
Db 227 CCGAGGCGAGGTCCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 269

RESULT 9
US-09-921-397-39
; Sequence 39, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-39

Query Match      9.0%; Score 31; DB 9; Length 152;
Best Local Similarity 100.0%; Pred. No. 5.7e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
Db 120 CCGGGCTCAGCCCGGGTACCCCTTGGCCCT 150

RESULT 10
US-09-921-397-41
; Sequence 41, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
; LENGTH: 234
; TYPE: DNA
US-09-873-224a-147.olig.rnpb

; ORGANISM: Hepatitis C virus
US-09-921-397-41

Query Match      9.0%; Score 31; DB 9; Length 234;
Best Local Similarity 100.0%; Pred. No. 5.4e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
Db 186 CCGGGCTCAGCCCGGGTACCCCTTGGCCCT 216

RESULT 11
US-10-071-867-16
; Sequence 16, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: Creagene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
; FILE REFERENCE: Creagene-USA-1
; CURRENT APPLICATION NUMBER: US/10/071,867
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: KR 2001-6229
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 16
; LENGTH: 300
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV core-100
US-10-071-867-16

Query Match      9.0%; Score 31; DB 16; Length 300;
Best Local Similarity 100.0%; Pred. No. 5.3e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
Db 224 CCGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

RESULT 12
US-09-921-397-114
; Sequence 114, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 114
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-114

Query Match      9.0%; Score 31; DB 9; Length 310;
Best Local Similarity 100.0%; Pred. No. 5.3e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
Db 264 CCGGGCTCAGCCCGGGTACCCCTTGGCCCT 294
```

RESULT 13

US-09-851-138-1
; Sequence 1, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS

NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 327 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-851-138-1

Query Match 9.0%; Score 31; DB 9; Length 327;
Best Local Similarity 100.0%; Pred. No. 5.3e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCAGAGGCGAGGTCCTGGGCTCAGCCCGGTA 241

Db 212 CCAGAGGCGAGGTCCTGGGCTCAGCCCGGTA 242

RESULT 14

US-09-921-397-115
; Sequence 115, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7

; PRIOR FILING DATE: 2000-08-03

; NUMBER OF SEQ ID NOS: 156

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 115

; LENGTH: 339

; TYPE: DNA

; ORGANISM: Hepatitis C virus

US-09-921-397-115

Query Match 9.0%; Score 31; DB 9; Length 339;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CTTGGGCTCAGCCCGGTCACCTTGGCCCT 253

Db 224 CTTGGGCTCAGCCCGGTCACCTTGGCCCT 254

RESULT 15

US-09-306-780-3

; Sequence 3, Application US/09306780

; Publication No. US20010051336A1

; GENERAL INFORMATION:

; APPLICANT: TAKEMURA, FUMINORI

; UENO, EIICHI

; ITOH, SATORU

TITLE OF INVENTION: NUCLEIC ACID-BOUND POLYPEPTIDE, METHOD
OF PRODUCING NUCLEIC ACID-BOUND POLYPEPTIDE AND
IMMUNOASSAY USING THE POLYPEPTIDE.

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,

P.C.

STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400

CITY: ARLINGTON

STATE: VA

COUNTRY: U.S.A.

ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/306,780

FILING DATE: 07-May-1999

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/841,657A

FILING DATE: 30-APR-1997

APPLICATION NUMBER: JP 8-134444

FILING DATE: 01-MAY-1997

ATTORNEY/AGENT INFORMATION:

NAME: OBLON, NORMAN F.

REGISTRATION NUMBER: 24,618

REFERENCE/DOCKET NUMBER: 2084-033-0

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 413-3000

TELEFAX: (703) 413-2220

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 360 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "synthetic DNA"

FEATURE:

NAME/KEY: CDS

LOCATION: 1..360

SEQUENCE DESCRIPTION: SEQ ID NO: 3:

US-09-306-780-3

Query Match 9.0%; Score 31; DB 9; Length 360;
 Best Local Similarity 100.0%; Pred. No. 5.2e-06;
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 223 CCTGGGCTCAGCCGGGTACCTTTGGCCCT 253
 ||||||||||||||||||||||||||||||||
 Db 224 CCTGGGCTCAGCCGGGTACCTTTGGCCCT 254
 ||||||||||||||||||||||||||||||||

Search completed: April 15, 2005, 00:27:09
 Job time : 508 secs

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